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PERSONAL

Mr. H. D. Woods has resigned as City Engineer of Newton, Mass.

Mr. Arthur W. Dean has been elected City Engineer of Nashua, N. H.

Mr. Edward R. Cary has been appointed City Engineer of Troy, N. Y.

Mr. George N. Bell has been appointed City Engineer of Kingston, N. Y.

Mr. Winslow L. Webber has been elected City Engineer of Gloucester, Mass.

Professor J. M. Crafts has resigned the presidency of the Massachusetts Institute of Technology.

Mr. Wallace G Collins has resigned his position as General Manager of the Chicago, Milwaukee & St. Paul Ry.

Mr. Victor W. Kline has been promoted to the position of Assistant Engineer on the Isthmian Canal Commission.

Mr. W. T. Goundie has been appointed General Superintendent of the Brooklyn Rapid Transit Co. of Brooklyn, N. Y.

Mr. Wilgott Klinberg has retired as City Engineer of Kingston, N. Y., and will open an office as consulting engineer.

Mr. Waldemar Tengelsen Tingston, Street Engineer of Stockholm, Sweden, is in this country inspecting municipal work.

Mr. Eugene F. Sanctuary, City Engineer of Montpelier, Vt., has received an appointment to the United States Engineer Corps.

Mr. John Venner has been appointed to succeed, temporarily, Mr. W. R. Hill as Superintendent of Water-Works at Syracuse, N. Y.

Mr. F. E. Drake, Director of the United States Machinery and Electricity Departments of the Paris Exposition, sailed recently for Paris.

Mr. Emil Kuichling has retired as Chief Engineer of the Rochester (N. Y.) Water-Works, and will enter private practice as a consulting engineer.

Mr. Henry A. La Chicatte and Mr. Robert R. Cornell have been appointed Assistant Engineers in the Department of Bridges of New York city.

Mr. N. Montserratt, President of the Hocking Valley R. R., has been elected President of the Kanawha & Michigan R. R., to succeed Judge Stevenson Burke.

Commander Katsura Marita and Isoji Ishigro, Engineers of the Imperial Japanese Navy, are visiting the several navy yards of the United States Government.

Mr. F. B. Sheldon, Chief Engineer of the Hocking Valley Ry., has been appointed Assistant to the President of the same company. He will retain his position as Engineer.

Maj. Joseph H. Willard has succeeded Maj. William L. Marshall as United States Engineer for the District of Chicago. Maj. J. W. Casey will relieve Maj. Willard at New Orleans.

Mr. W. D. Sams, of Asheville, N. C., has been appointed Superintendent of Bridges on the Memphis Division of the Southern R. R., to succeed J. Y. Hill, promoted to Roadmaster of the Knoxville Division.

Mr. W. H. Law has been appointed Chief Engineer and Manager of the Hamilton Bridge Works Co., of Hamilton, Can. Mr. H. Sziapka, at present holding the above position, will remain on the engineering staff.

Mr. Arthur S. Meloy, Mr. Fred. H. Parsons and Mr. Frederick H. Beckwith have formed a copartnership under the firm name of Meloy & Parsons, with offices at Bridgeport, Conn., to carry on general engineering and architectural work.

Mr. A. A. Schenck has been appointed Division Engineer of the Iowa Division of the Chicago & Northwestern Ry., with headquarters at Boone, Iowa, and will have charge of second track work in connection with his other duties as division engineer.

Mr. Herbert Kilburn Scott, one of the Chief Engineers of the Manganese Mines at Minas, Brazil, is now on a visit to the United States for the purpose of investigating the latest American mining practice. He will thoroughly inspect the Lake Superior iron ore mines and will probably make a trip to Pittsburg.

Mr. Ralph H. Chambers, Assoc. M. Am. Soc. C. E., for the past four years contracting engineer in charge of the Boston office of the King Bridge Co., and Mr. Frederic de P. Howe, Jun. M. Am. Soc. C. E., lately assistant engineer in charge of the Norfolk & Asheville division of the Southern Ry., have resigned their positions, and have opened an office as consulting engineers at 60 New St., New York city, under the firm name of Chambers & Howe.

Capt. Charles L. Potter, Corps of Engineers, U. S. A., has been detailed, in addition to his other duties, as Engineer of the Sixteenth Lighthouse district, at Memphis. He relieves Capt. Henry C. Newcomer, Corps of Engineers, who has been ordered to duty as an assistant to the engineer commissioner of the District of Columbia.

Mr. Samuel C. Brosius, Superintendent of Water-Works at Baltimore, Md., has been retired, together with thirty-three other employees, as a result of the policy of economy of the new Mayor. Mr. Brosius was made superintendent and consulting engineer of the Water Department in March 1898. Previously he had been engaged in engineering work in Washington, D. C., Decatur, Ala., and other places. He was educated at Purdue University and the Maryland Institute.

General William Ludlow, Lieutenant-Colonel of Engineers, has been appointed a Brigadier General in the Regular Army. The following promotions in the Corps of Engineers follow as a result of the appointment: Major W. H. Heuer, stationed at San Francisco, to be lieutenant-colonel; Captain C. McD. Townsend, stationed at Rock Island, Ill., to be major; First Lieutenant Robert McGregor, stationed at Little Rock, Ark., to be captain; Second Lieutenant F. W. Alstaetter, stationed at Willets Point, N. Y., to be first lieutenant; Additional Second Lieutenant E. M. Markham, stationed at St. Augustine, Fla., to be second lieutenant.

OBITUARY.

Mr. John P. Kelley, Superintendent of Public Works of New Rochelle, N. Y., died on Jan. 5, after a short illness, from pleuro-pneumonia.

Commander James W. Carlin died Dec. 20 on board the "Colgoa" while on his way to the Naval Hospital at Yokohama. He was 51 years of age when he died, and graduated at Annapolis in the class of 1868.

Mr. Nathaniel R. Benson, formerly superintendent of the ship-yards of the Harlan & Hollingsworth Co., of Wilmington, Del., died Dec. 30, at his home in that city. Mr. Benson graduated from the University of Pennsylvania as a civil engineer.

Mr. Ward Hunt Dean died on Jan. 3, at his home in Indianapolis, Ind. Mr. Dean was Superintendent of the Dean Bros. Steam Pump Works. He was born at Deansville, N. Y., in 1850. In 1870 the Dean Steam Pump Works were established at Indianapolis.

Mr. Erasmus Livingston Wentz, civil engineer, died this week at Binghamton, N. Y. During the Civil War Mr. Wentz is said to have been Superintendent of military railways; and to hold a record of having built 23 miles of railway in 65 days, between East St. Louis and Alton.

Mr. Dominicus Koppmann died at his home in Boston, Mass., on Jan. 3. Mr. Koppmann was for 35 years connected with the work of the Harbor and Land Commission of Boston, having been engineer for some years up to 1892. Since then he has been consulting engineer to the commission. Mr. Koppmann was born in Germany, and when a young man was a government inspector of mines in that country.

Mr. Samuel Dana Greene, M. Am. Inst. E. E., Assistant General Manager of the General Electric Co., Schenectady, N. Y., was drowned with his wife on Jan. 8 while skating on the Mohawk River, near his home. The accident was unwitnessed, but resulted from the couple skating into a cut in the ice, which had been made by ice harvesters. Mr. Greene was 35 years old, and was the son of Commander Samuel Dana Greene, U. S. N., who was second in command on the "Monitor" during her famous fight with the "Merrimac" in Hampton Roads, and the grandson of Gen. George S. Greene, M. Am. Soc. C. E., who died on Jan. 27, 1899. Gen. Francis V. Greene, M. Am. Soc. C. E., and Gen. George S. Greene, M. Am. Soc. C. E., were uncles of the deceased man. S. Dana Greene started his life's work in his father's profession, having graduated from the U. S. Naval Academy at Annapolis with high honors in 1883. On July 1, 1885, he received his commission as ensign and remained in the navy until 1888, when he resigned, to take up electrical engineering work. For some years Mr. Greene was Chief Engineer of the Sprague Electric Ry. & Motor Co., which position he resigned, to connect himself with the General Electric Co. Mr. Greene married Miss Cornelia Chandler, daughter of Rear Admiral Chandler, U. S. N., with whom he became acquainted while an ensign.

ENGINEERING SOCIETIES.

COMING GENERAL MEETINGS.

AMERICAN ASSOCIATION OF INVENTORS AND MANUFACTURERS.
Jan. 16. Annual meeting at Washington, D. C. Secy., Arthur Stuart, Washington, D. C.
NORTHWESTERN ELECTRICAL ASSOCIATION.
Jan. 17. Annual meeting at Milwaukee, Wis. Secy., Thos. R. Mercein, 85 Michigan St., Milwaukee, Wis.
AMERICAN SOCIETY OF CIVIL ENGINEERS.
Jan. 17 and 18. Annual meeting at New York city. Secy., C. W. Hunt, 220 W. 57th St., New York city.
AMERICAN SOCIETY OF HEATING AND VENTILATING ENGINEERS.
Jan. 23 to 25. Annual meeting at New York city. Secy., W. M. Mackay, P. O. Box 1818, New York city.
OHIO SOCIETY OF CIVIL ENGINEERS AND SURVEYORS.
Jan. 24 to 26. Annual meeting at Columbus, O. Secy., C. N. Brown, Columbus, O.
ILLINOIS SOCIETY OF ENGINEERS AND SURVEYORS.
Jan. 24 and 26. Annual meeting at Moline, Ill. Secy., Jacob A. Harman, Peoria, Ill.
CANADIAN SOCIETY OF CIVIL ENGINEERS.
Jan. 30. Annual meeting at Montreal, P. Q. Secy., C. H. McLeod, 112 Mansfield St., Montreal, P. Q.
INDIANA ENGINEERING SOCIETY.
Feb. 1 to 3. Annual meeting at Lafayette, Ind. Secy., Jos. B. Nelson, 61 Baldwin Blk., Indianapolis, Ind.
LAKE SUPERIOR MINING INSTITUTE.
Feb. 6. Annual meeting at Iron Mountain, Mich. Secy., F. W. Speer, Houghton, Mich.
AMERICAN PAPER AND PULP ASSOCIATION.
Feb. 14 and 15. Annual meeting at New York city. Secy., C. W. Rantout, 101 Times Building, New York city.
AMERICAN INSTITUTE OF MINING ENGINEERS.
Feb. 20. Annual meeting at Washington, D. C. Secy., R. W. Raymond, 99 John St., New York city.
ASSOCIATION OF ONTARIO LAND SURVEYORS.
Feb. 27 to March 1. Annual meeting at Toronto, Can. Secy., A. J. Van Nostrand, Yonge St. Arcade, Toronto, Can.

COMING LOCAL MEETINGS.

BROOKLYN ENGINEERS' CLUB.
Jan. 11. At Brooklyn, N. Y. Secy., A. J. Provost, Jr., 191 Montague St., Brooklyn, N. Y.
ENGINEERS' SOCIETY OF WESTERN PENNSYLVANIA.
Jan. 16. At Pittsburg. Secy., R. A. Fessenden, 410 Penn Ave., Pittsburg, Pa.
WESTERN RAILWAY CLUB.
Jan. 16. At Chicago. Secy., J. W. Taylor, 667 The Rookery, Chicago, Ill.
AMERICAN SOCIETY OF CIVIL ENGINEERS.
Jan. 17. At New York. Secy., C. W. Hunt, 220 W. 57th St., New York city.
BOSTON SOCIETY OF CIVIL ENGINEERS.
Jan. 17. Secy., S. E. Tinkham, City Hall, Boston, Mass.
ENGINEERS' CLUB OF ST. LOUIS.
Jan. 17. Secy., Richard McCulloch, 2401 N. Spring Ave., St. Louis, Mo.
ENGINEERS 'CLUB OF CINCINNATI.
Jan. 18. Secy., J. F. Wilson, P. O. Box 333, Cincinnati, O.
NEW YORK RAILROAD CLUB.
Jan. 18. At New York city. Secy., W. W. Wheatley, 168 Montague St., Brooklyn, N. Y.
CHICAGO ELECTRICAL ASSOCIATION.
Jan. 19. Secy., Cloyd Marshall, 1310 Monon Bldg., Chicago, Ill.
ENGINEERS' CLUB OF COLUMBUS.
Jan. 20. Secy., H. M. Gates, 12½ North High St., Columbus, O.
MONTANA SOCIETY OF CIVIL ENGINEERS.
Jan. 20. At Melena. Secy., Albert S. Hovey, Helena, Mont.
CIVIL ENGINEERS' CLUB OF CLEVELAND.
Jan. 23. Secy., W. H. Searles, Case Library Bldg., Cleveland, O.
ENGINEERS' CLUB OF MINNEAPOLIS.
Feb. 1. Secy., H. E. Smith, 1620 S. E. 4th St., Minneapolis, Minn.
TECHNICAL SOCIETY OF THE PACIFIC COAST.
Feb. 2. At San Francisco. Secy., O. Von Geldern, 819 Market St., San Francisco, Cal.
ENGINEERS' SOCIETY OF WESTERN NEW YORK.
Feb. 5. At Buffalo. Secy., H. J. March, Library Bldg., Buffalo, N. Y.
ST. LOUIS RAILWAY CLUB.
Feb. 9. Secy., H. H. Roberts, 511 Commercial Bldg., St. Louis, Mo.
DENVER SOCIETY OF CIVIL ENGINEERS.
Feb. 13. Secy., W. B. Lawson, 36 Jacobson Bldg., Denver, Colo.
NEW ENGLAND RAILROAD CLUB.
Feb. 13. At Boston. Secy., Edw. L. Jones, P. O. Box 1158 Boston, Mass.
NORTHWEST RAILWAY CLUB.
Feb. 13. At Minneapolis. Secy., T. A. Fogue, Soo Line, Minneapolis, Minn.

AMERICAN SOCIETY OF MECHANICAL ENGINEERS.—At the Juniors' meeting on Jan. 2, Col. E. D. Meier presented a paper on "The Present State of the Diesel Motor," which was illustrated by lantern slides.

ENGINEERS' CLUB OF COLUMBUS.—At the regular meeting on Jan. 6, Prof. C. N. Brown read a paper on "The Big Sandy Coal Fields." The next and last meeting of the fiscal year will be Jan. 20. H. M. Oates, Secy.

MONTANA SOCIETY OF ENGINEERS.—The annual meeting will be held at Bozeman, Mont., Jan. 12 and 13. The following program will be presented: "The Reconstruction of the Big Hole Dam," by Jos. H. Harper, C. E.; "The Flow of Water in Irrigating Canals," by S. Fortier, Ma. E., Mem. Can. Soc., C. E. Other papers will be announced later. Albert S. Hovey, Secy.

THE AMERICAN SOCIETY OF CIVIL ENGINEERS holds in 47th annual meeting on Jan. 17 and 18 at the house of the society, 220 W. 57th St., New York. At 3 p. m. on Wednesday Mr. Wm. Barclay Parsons will deliver an illustrated lecture on his railway experiences in China, and in the evening a reception will be given to members and guests, including ladies. On Thursday there will be excursions to the power stations of the Third Avenue Railway Co., and the Metropolitan Railway Co., by steamer from the foot of W. 57th St., North River, starting at 10 a m. At 8:30 p. m. an illustrated paper will be read by Mr. George B. Francis, describing the South Terminal Station at Boston, Mass.

NORTHWESTERN ELECTRICAL ASSOCIATION.—The following papers are to be presented at the annual convention, which will be held at Milwaukee, Wis., Jan. 17: "Modern Development in Alternating Current Series Arc Lamps," R. Fleming; "Alternating Current Phenomena," Prof. Jackson, Wisconsin University; "Combination of Electric Lighting and Hot Water Heating Plants," W. H. Schott; "Central Station Economies," H. W. Frund; "Induction and Direct Current Motors," Ralph D. Mershon; "Relative Desirability and Efficiency of Various Types of Engines on Central Station Loads," Prof. Richter, Wisconsin University; "A Life Test of Incandescent Lamps," Prof. Shepardson, Minnesota University; "A Canadian Plant," L. G. Van Ness.

IOWA ENGINEERING SOCIETY.—The annual meeting will be held at Des Moines, Iowa, Jan. 17 to 20. The following program will be presented: President's address, Prof. Chas. S. Magowan, Iowa City, Iowa; "Notes on Railway Location in the Prairie States," by Lowell H. Stone, Des Moines, Iowa; "Fan Heating and Ventilation," by L. Higgins, Des Moines, Ia.; "Sewage Disposal Plant and In-

vestigations at the Iowa State College," by Prof. A. Marston, Prof. J. B. Weems and Prof. L. H. Pammel, Ames, Iowa; "Public Land Surveys of the United States Compared with other Systems," C. R. Allen, Ottumwa, Iowa; Report of Committee on Good Roads, by Chas. P. Chase, Clinton, Iowa; Report of Committee on Paving Brick Tests, by Prof. Marston, Ames, Iowa; Report of Committee on Practical Work, by B. Schreiner, Des Moines, Iowa; Report of Committee on Legislation, by Prof. Sims, Iowa City, Iowa.

MICHIGAN ENGINEERING SOCIETY.—At the annual convention at Kalamazoo, Mich., Jan. 2 to 4, the following program was presented: President's address, J. J. Hubbell, Manistee; "Pure Water for Michigan Cities," A. L. Holmes, Grand Rapids, Mich.; "Waterworks Management," W. W. Brigden, Battle Creek, Mich.; "Roads in Massachusetts and New Jersey," F. F. Rogers, Port Huron; "How to Make a Good Road," A. J. Teed, Cadillac, Mich.; "Hydraulic Formulas," M. E. Sullivan, Longmont, Colo.; "Sewerage," P. A. Courtright, Marshall, Mich.; "The Northwest Territory Centennial Exposition," W. J. Sherman, Toledo, O.; "Authority of the County Surveyor to Make Original Surveys," C. A. Ensign, San Francisco, Cal.; "Wrought Iron and Steel Water Pipe," C. W. Hubbell, Detroit, Mich.; "Grand Rapids Public Works," Geo. M. Ames, Grand Rapids, Mich.; "Spiders and Spider Webs," E. Strong, Kalamazoo, Mich.; "Economic Geology of Lower Michigan," Hon. A. C. Lane, State Geologist, Lansing, Mich.; "The Function of Land Grant Colleges," Prof. C. L. Weil, Agricultural College, Mich. The following officers were elected: President, H. E. Riggs, Toledo, O.; Vice-President, Wm. B. Sears, Saginaw, Mich.; Secretary, F. Hodgman, Climax, Mich.

WESTERN SOCIETY OF ENGINEERS.—The annual meeting and banquet were held at the Grand Pacific Hotel, on Jan. 2, with a very large number of members and guests in attendance. At the meeting before dinner the result of the election of officers for the year 1900 was announced, and was as follows: President, Ambrose V. Powell; First Vice-President, Edward J. Blake; Second Vice-President, William H. Finley; Treasurer, Ralph Modjeski; Trustees, George P. Nichols, August Ziesing and Bion J. Arnold; Secretary, Nelson L. Litten.

After the more solid portion of the dinner had been disposed of, the reports of officers and standing committees were presented. From these it appeared that the society has now 488 members, with $2,495 on hand and 3,384 volumes in the library. The expenditures for the year amounted to $6,099, and the receipts to $7,000. The report of the Committee on the Paris Exhibition, presented by Mr. Ralph Modjeski, recounted the steps taken to secure exhibits under the auspices of the society. These will include a large model of the Chicago Drainage Canal, and many of the contractors on that work will exhibit models of the special machinery used. Short addresses were made by the retiring president, Mr. Onward Bates, and by the incoming president, Mr. A. V. Powell.

In the after-dinner speeches, particular attention was paid to the early days of the society, which was organized in 1869 as the Civil Engineers' Club of the Northwest, and was incorporated as the Western Society of Engineers in 1880. Mr. L. P. Morehouse read extracts from the minutes of the old club; Mr. Octave Chanute spoke on "The Kansas City Bridge in 1869;" Mr. W. M. R. French, "The Board of Public Works in 1869;" Mr. Ossian Guthrie, "Deepening the Illinois and Michigan Canal in 1866." Mr. Isham Randolph spoke on "The Opening of the Drainage Canal, Jan. 2, 1900," and Mr. L. E. McGann, Commissioner of Public Works, gave an address on "The Municipal Engineering of Chicago," in which he touched with no light hand on the defective conditions and unsatisfactory financial and political affairs of the city. The meeting adjourned about midnight.

CONNECTICUT SOCIETY OF CIVIL ENGINEERS AND SURVEYORS.—The sixteenth annual meeting and dinner of the society was held at Hartford on Jan. 9. The address of the President, Mr. E. D. Graves, M. Am. Soc. C. E., included an encouraging review of the past year, as related to the society, and the profession. It was suggested that an Assistant Secretary, in close touch with the President, might collect valuable information during the year regarding the progress of engineering work in the state, the results to be included in the annual report. The address contained a plea for a more satisfactory recognition of the engineering profession and for freeing engineers from the trammels of political organizations.

The report of the Secretary, Mr. George K. Crandall, showed a total membership of 106 at the close of the year, to which 38 names were added during the meeting.

The first paper was by Prof. Wm. Lispenard Robb. It described a new concrete dam and power house recently built at Tariffville, Conn., for the Hartford Electric Light Co. The dam is founded on trap rock and is 25 ft. above the normal water level of the stream. A fall of 33 ft. is utilized, giving an average of 2,000 HP. during nine months of the year. The transmission line is of aluminum. At the time the wire was bought copper was 19¼ cts. per lb., while the cost of aluminum was the equivalent of copper at 15¼ cts. The dam was built in 75 days from starting work on the coffer dam, and in 40 days after construction of the dam proper was begun.

A paper on "Physical and Heat Treatment of Structural Steel" was read by Mr. Henry Souther. It was illustrated by numerous specimens and micro-photographs, accompanied by chemical analyses and tests of the specimens.

Mr. Geo. B. Rogers read a paper on "The Co-operation of Architects and Engineers," in which he urged more harmonious action on the part of the two professions.

Lantern slides showing views of the improved sewerage system of Providence, R. I., were exhibited by Mr. Herbert E. Knight, who was engaged on the work. This work has been in progress for many years. Besides a system of intercepting sewers it includes a pumping station with a lift of 29 ft. and large chemical precipitation tanks. When the intercepting sewers were started, rubble masonry side walls were used, but for some years past concrete has been employed exclusively, with a wearing surface, merely, of brick. Concrete has also been used for the foundations of the pumping station and for the precipitation tanks. The site for the pumping station was in very troublesome quicksand, so bad that space for the footing courses had to be fought for, almost foot by foot. The foundations were started in small sections, using concrete in bags to dam out the quicksand. The precipitation tanks have their vertical walls and bottoms joined by curves, to avoid corners for the lodgement of sludge. The sewage first passes through large roughing tanks, then goes to smaller tanks. The roughing tanks also hold the more dilute night sewage in reserve for mixing with the stronger day sewage, thus equalizing the character of the sewage to be treated. The sludge passes by gravity to a sludge well, from which two Shone ejectors lift it to a tank in which the moisture is reduced by drainage, the liquor being sent back to the precipitation tanks for further treatment. The sludge is dug into the ground, but sludge presses are being built.

Mr. Graves was re-elected as President and Mr. Crandall as Secretary of the society.

NEW PUBLICATIONS.

ROADMASTERS' ASSOCIATION OF AMERICA.—Proceedings of the 17th Annual Convention, held at Detroit, Mich., Sept. 12, 13, 14, 1899. Published by the Association. Secy., J. B. Dickson, C. & N. W. Ry., Sterling, Ill. Paper; 8vo.; pp. 141; illustrated.

This volume contains the papers, reports and discussions presented at the meeting, the proceedings of which were reported in our issues of Sept. 14 and 21, 1899. The reports and papers are upon the following subjects: (1) Length of Rails, Miter Joints and Expansion of Rails; (2) Fences for Right of Way; (3) Embellishment of Station Grounds; (4) Relations of Track to Traffic; (5) Standard Car and Track Gages. There is also the text of an address on "Modern Developments in Track and Track Work," by Mr. E. E. Russell Tratman, Associate Editor of Engineering News. The book is well arranged and well printed, but lacks an index.

TRADE PUBLICATIONS.

(The standard sizes for pamphlets and trade catalogues recommended by all the principal engineering societies of the United States are: 3½ x 6 ins., 6 x 9 ins., and 9 x 12 ins.)

SCALES.—The Standard Scale & Supply Co., Pittsburg, Pa. Paper; 6 x 4 ins.; pp. 96; illustrated.

This catalogue describes, illustrates and gives the capacity and cost of a great variety of scales, ranging from railway track-scales to those intended for druggists' use. The index covers over 100 types of scales.

CORLISS ENGINES.—Murray Iron Works Co., Burlington, Iowa. Paper; 9 x 6 ins.; pp. 76; illustrated.

The "Sioux" Corliss engine, manufactured by the above company, is described in this book. Sectional views are given showing the construction of the several parts; also dimensional tables and tables showing the steam consumption of the different types. The latter part of the book is devoted to tubular steam boilers.

POWER TRANSMISSION APPLIANCES.—Dodge Mfg. Co., Mishawaka, Ind. Half cloth; 6 x 9 ins.; pp. 288; illustrations and tables.

Valuable information relating to power transmission machinery may be found in the above book. Numerous illustrations and complete tables of dimensions are given. Among the subjects treated are friction clutches, shafting, self-oiling bearings, grain elevating machinery and machinery for rope transmission.

RECENT LOCOMOTIVES.—Baldwin Locomotive Works, Philadelphia, Pa. Paper; 9 x 6 ins.; pp. 31; illustrated.

This illustrated record of engines recently built includes eight-wheel engines for two railways in India and the French State Railways, moguls for San Domingo and for the Uganda Ry. (East Africa), and tank engines for Japan, Holland and Norway. There are also passenger and heavy consolidation freight engines for different railways in the United States.

ROCK DRILLS.—Sullivan Machinery Co., Chicago, Ill., and Claremont, N. H. Paper; 10⅝ x 7½ ins.; pp. 81; illustrated.

This is a descriptive catalogue and price list of rock drills, diamond drills for prospecting purposes, quarrying machinery, coal-mining machinery and standard air compressors, pumps, boilers, etc. Full lists are given of parts, dimensions, weights, prices, etc., both for the complete machines and their component parts, and in each case the machine is illustrated by excellent photographs. The part devoted to exploring drills is exceptionally complete.

AUTOMATIC MACHINE TOOLS.—The Spencer Automatic Machine Screw Co., Hartford, Conn. Cloth; 9 x 6 ins.; pp. 34; illustrated.

This is a catalogue illustrative and descriptive of automatic machinery designed for the manufacture of every variety of machine screws and turned metal parts. This company manufactures a double-turret machine that has a forward and a rear turret, acting in conjunction with a primary and a secondary spindle. By this means two complete sets of tools can be employed and two series of operations simultaneously performed on the opposite ends of a piece.

FIRELESS LOCOMOTIVES.—Compagnie Continentale d'Exploitation des Locomotives sans Foyer, 19 Rue d'Auber, Paris, France. Paper; 4½ x 6¾ ins.; pp. 30; illustrated.

The locomotives described in this pamphlet have tanks charged with hot water under pressure, on the Francq, Lamm and Mesnard systems. There are half-tone engravings of these engines with their trains on street and suburban railways in different towns of France and at Batavia (Dutch East Indies). They have been in use on these lines for from two to 17 years. The system is not described, but particulars are given of the length, train service, etc., of the several lines, which have from one to 25 engines each.

POWER HAMMERS.—The Dupont Manufacturing Co., St. Johnsburg, Vt. Paper; 6 x 9 ins.; pp. 14; illustrated.

The hammer here described is operated by an adjustable crank, the crank-pin sliding in a groove in the crank-plate, allowing the operator to lengthen or shorten the stroke at will. Motion is applied to the head or ram by means of a connecting rod sliding in a sleeve or collar supplied with a large set screw, or clamp, to hold the rod in position, and to this sleeve are hinged two side arms, these in turn being connected to the ram by metal links. By the use of a steel spring properly adjusted between these arms the jar is thoroughly cushioned. The head strikes a sharp, quick blow (250 to 500 per minute), and instantly gets away from the work, thereby avoiding any chilling of the stock.

CONSTRUCTION NEWS.

CONDENSED LIST OF CONTRACTS PENDING WITH DATE OF OPENING BIDS.

Bids to be opened	Work.	Place.	See Eng News
Jan. 11.	Paving, New York, N. Y.		Jan. 4
Jan. 11.	Pipe sewers, Williamsport, Pa.		Dec. 21
	Advertised, Engineering News, Dec. 21.		
Jan. 11.	Electric plant, Gastonia, N. C.		Dec. 7
	Advertised, Eng. News, Dec. 7 to 21.		
Jan. 11.	Water-works, Gastonia, N. C.		Dec. 7
	Advertised, Eng. News, Dec. 7 to 21.		
Jan. 11.	Sewerage system, Gastonia, N. C.		Dec. 7
	Advertised, Eng. News, Dec. 7 to 21.		
Jan. 13.	Office building, Washington, D. C.		Dec. 28
Jan. 13.	Breakwater, Michigan City, Ind.		Dec. 14
	Advertised, Eng. News, Dec. 14 to Jan. 4.		
Jan. 13.	City lighting, Saginaw, Mich.		Jan. 11
Jan. 15.	Rapid transit tunnel, New York.		Nov. 16
Jan. 15.	Railway franchise purchase, Salinas, Cal.		Dec. 21
Jan. 15.	Electric wiring, Chicago, Ill.		Dec. 21
Jan. 15.	Pier extension, Portage, Mich.		Dec. 21
	Advertised, Eng. News, Dec. 21 to Jan. 11.		
Jan. 15.	Railway ties, New York, N. Y.		Dec. 21
Jan. 15.	Breakwater, Grand Marais, Minn.		Dec. 21
	Advertised, Eng. News, Dec. 21 to Jan. 11.		
Jan. 15.	Bridge bonds, Cleveland, O.		Dec. 28
Jan. 15.	School house, Centreville, Md.		Dec. 28
Jan. 15.	Removing buildings, New York, N. Y.		Dec. 28
Jan. 15.	Bridge, Millburn, N. J.		Jan. 4
Jan. 15.	Water bonds, Sinclairville, N. Y.		Jan. 4
Jan. 15.	City lighting, Milwaukee, Wis.		Jan. 4
Jan. 15.	Hospital, Warren, Pa.		Jan. 4
Jan. 15.	Sewers, Santa Monica, Cal.		Jan. 4
Jan. 15.	School, Boston, Mass.		Jan. 11
Jan. 15.	Manufacturing building, Marietta, O.		Jan. 11
Jan. 15.	Electric r'y construction, New Castle, Del.		Jan. 11
Jan. 15.	School building, New York, N. Y.		Jan. 11
Jan. 16.	Lighting city, Woodbury, N. J.		Jan. 11
Jan. 16.	Steel bridge, Wyebridge, Ont.		Jan. 4
Jan. 16.	Sewer, Mount Vernon, N. Y.		Dec. 28
Jan. 16.	Water and light bonds, Olivia, Minn.		Dec. 28
Jan. 16.	Sanitary bonds ($1,000,000), Chicago, Ill.		Dec. 21
Jan. 16.	Street improvements, Cincinnati, O.		Dec. 21
Jan. 16.	Generator, Newcastle-upon-Tyne, Eng.		Dec. 14
Jan. 17.	Pier extension, Grand Haven, Mich.		Dec. 21
	Advertised, Eng. News, Dec. 21 to Jan. 11.		
Jan. 18.	Officers' quarters, Fort Schuyler, N. Y.		Dec. 28
Jan. 19.	Bridge, Ramsgate, England		Jan. 4
Jan. 19.	Pier extensions, Muskegon, Mich.		Dec. 21
	Advertised, Eng. News, Dec. 21 to Jan. 11.		
Jan. 20.	Ferry slip, San Francisco, Cal.		Dec. 21
Jan. 20.	Construction materials, Philadelphia, Pa.		Dec. 21
	Advertised, Eng. News, Dec. 21 to Jan. 11.		
Jan. 20.	Electric plant, Ilford, England		Dec. 28
Jan. 20.	Bridge superstructure, L'Orignal, Ont.		Dec. 28
Jan. 20.	Locks and dams, Warrior River, Ala.		Dec. 28
	Advertised, Eng. News, Dec. 28 to Jan. 18.		
Jan. 20.	Extending quay, Oban, Scotland.		Jan. 4
Jan. 20.	Steel Bridge, Wingham, Ont.		Jan. 11
Jan. 20.	Court house, Dixon, Ill.		Jan. 11
Jan. 22.	Sewage pumping station, Glasgow, Scotland.		Dec. 28
Jan. 22.	Steel and iron, St. Paul, Minn.		Dec. 28
	Advertised, Eng. News, Dec. 28 to Jan. 18.		
Jan. 22.	City lighting, Wichita, Kan.		Dec. 28
Jan. 22.	Lighting franchise, Irvine, Ky.		Jan. 11
Jan. 22.	Water-works franchise, Irvine, Ky.		Jan. 11
Jan. 22.	Electric plant, Frankford, Ind.		Jan. 11
Jan. 23.	Electric plant, Barking, Eng.		Jan. 11
Jan. 23.	Garbage removal, Mt. Vernon, N. Y.		Jan. 11
Jan. 23.	Sewer, Wabash, Ind.		Dec. 28
Jan. 23.	College building, Columbus, O.		Dec. 28
Jan. 23.	Floating bridge, Petersborough, Ont.		Dec. 28
Jan. 24.	Ditch, Champaign, Ill.		Jan. 4
Jan. 24.	Electricity, Newcastle-upon-Tyne, Eng.		Jan. 4
Jan. 25.	Water and other bonds, Pittsburg, Pa.		Jan. 11
Jan. 25.	Laundry building, Whitehall, Wis.		Jan. 11
Jan. 26.	Monument, New York, N. Y.		Jan. 11
Jan. 26.	Canal improvements, Port Colborne, Ont.		Jan. 4
Jan. 27.	Reservoir and conduit, Gloversville, N. Y.		Jan. 11
	Advertised, Eng. News, Jan. 11 and 18.		
Jan. 28.	Finishing building, Davenport, Wash.		Jan. 4
Jan. 28.	Public baths, London, England		Dec. 28
Jan. 29.	General supplies, Denver, Colo.		Dec. 28
Jan. 29.	Gas lighting contract, Omaha, Neb.		Dec. 28
Jan. 29.	Pumping engines, Cleveland, Ohio.		Jan. 4
	Advertised, Eng. News, Jan. 4 to 18.		
Jan. 29.	Street improvements, Toledo, O.		Jan. 4
Jan. 30.	Breakwater, Bar Harbor, Me.		Jan. 4
	Advertised, Eng. News, Jan. 4 to 25.		
Jan. 30.	Bronze doors, Indianapolis, Ind.		Jan. 11
Jan. 30.	Repairing bridges, Toledo, O.		Jan. 11
Jan. 30.	Tramway rails, Great Yarmouth, Eng.		Jan. 11
Jan. 30.	Paving, Cleveland, O.		Jan. 11
Jan. 31.	Church building, Warsaw, N. Dak.		Dec. 28
Jan. 31.	Hospital building, New York, N. Y.		Oct. 26
Jan. 31.	Water-works, Ada, Minn.		Oct. 12
Feb. 15.	Sewers and water-works, Tampico, Mex.		Nov. 30
Jan. 19.	Government building, Helena, Mont.		Nov. 30
Jan. 26.	Waterway, shafts, etc., Valletta, Malta.		Nov. 30
Feb. 1.	School building plans, Toronto, Ont.		Dec. 7
Feb. 1.	Government building, Boise, Idaho		Dec. 28
Feb. 1.	Lighting franchise, Woodland, Cal.		Jan. 4
Feb. 1.	Pier extension, South Haven, Mich.		Jan. 11
	Advertised, Eng. News, Jan. 4 to 25.		
Feb. 7.	Metal work, Charleston, S. C.		Jan. 11
Feb. 8.	Bridges, Warrensburg, Mo.		Jan. 11
Feb. 8.	Interior decorating, Milwaukee, Wis.		Jan. 11
Feb. 9.	Sewers, Martinsville, Ind.		Jan. 11
	Advertised, Engineering News, Jan. 11.		
Feb. 10.	Electric plant, Monticello, Ark.		Jan. 11
	Advertised, Eng. News, Jan. 11 and 18.		

Feb. 10. Water-works, Monticello, Ark. ..... Jan. 11
Advertised, Eng. News, Jan. 11 and 18.
Feb. 10. Electric wiring, Norfolk, Va. ..... Jan. 11
Feb. 10. Storehouse and sheds, Buffalo, N. Y. ..... Jan. 11
Advertised, Eng. News, Jan. 11 and 18.
Feb. 10. Cement, Duluth, Minn. ..... Jan. 11
Advertised, Eng. News, Jan. 11 to Feb. 1.
Feb. 15. School furniture, Havana, Cuba. ..... Jan. 11
Feb. 15. Lighting city (1 year), York, Pa. ..... Jan. 11
Feb. 15. Lighting city (1 year), Vallejo, Cal. ..... Jan. 11
Feb. 21. Electric franchise, Topeka, Kan. ..... Jan. 11
Feb. 26. Government building, Sacramento, Cal. ..... Jan. 4
Feb. 26. Residence, St. Petersburg, Russia. ..... Nov. 2
Feb. 27. Mining lease, St. Matthews, Ind. ..... Nov. 23
Feb. 28. Railway (75 miles), Melbourne, Victoria. ..... Jan. 4
Mar. 1. Electric machinery, Walsall, England. ..... Jan. 11
Mar. 1. Plans municipal bldg., St. Michaels, Azores. ..... Jan. 11
Mar. 10. Railway, Belfast, Ireland. ..... Nov. 23
Mar. 12. Plans for hall,

NOTICE TO READERS.—Although every possible effort is made to verify the reports of new construction before their publication in these columns, complete verification is not always possible. When it becomes necessary to publish news whose accuracy has not been verified, the words "according to reports," "it is stated," or other expressions of similar import are attached to the item. We will be obliged to our readers if they will send us prompt reports of any work in which they may be interested, and also to call our attention to any important errors that may be noticed in these columns, and give us the correct details. When writing to persons and companies mentioned in this department, our readers will confer a favor by mentioning Engineering News as the source of their information. We also ask that newspapers using information taken from this department give due credit to this journal.

RAILWAYS.

APPOMATTOX, BUCKINGHAM & CUMBERLAND.—This company will petition for a charter for a line from Appomattox court house, Va., to Farmville. The company was recently incorporated by Jas. R. Werth, Richmond; A. D. Watkins, of Prince Edward county; H. M. White, Buckingham, Va., and others.

ARGENTINA.—A concession has been granted to Jorge Mallison, of Buenos Aires, for a railway of 1.676 metros gage from the river Parana de las Palmas to Trenque Lanquen, passing through Salto Junin and Lincoln. The concession stipulates that the materials and rolling stock must be first-class and that the weight of the rails must be 35 kilograms per lin. metro (minimum). The concessionaire has deposited in the Bank of the Nation $50,000 to guarantee the carrying out of the work.—J. Tregorina has received a concession for a road from the new slaughter houses of Buenos Aires connecting with the main lines entering the city. The gage will be 1.676 metros, and the minimum weight of rails 34 kilos. per lin. metro.—It is expected that Congress will act favorably on the bill for the government for the expropriation of land for the construction by the Central Argentine Ry. of a double line from San Fernando to the Tigre, about 150 miles; gage, 5 ft. 6 ins. H. H. Loveday, Gen. Mgr., Rosario.—The Buenos Aires-Great Southern Ry. Co. having given authority to F. Henderson, Gen. Mgr., for a line from Olovarria to Bahia Blanca, the work will begin with as little delay as possible.—The Public Works Committee of the Argentine Congress has reported favorably on the petition of Ernesto Piaggio, of Calle 25 de Maxo, 327 Buenos Aires, for a railway concession in the province of Chubut. The committee has also reported favorably on the project of Senor Misaly, already approved by the Senate, for lines in Santa Fe, from Santa Fe to Reconquista, from Reconquista to Colmena, from Cera to Mal Abrigs and from Colmena to the intersection of the 28th parallel. It is expected that the Chamber of Deputies will follow the example of the Senate and approve the project.—It is reported that Agostini & Scarsella of Calle Arcuenaga, No. 714 Buenos Aires, to whom a concession was recently granted for a port in the bay of Samborombon and for a road from that bay to Trenque Lanquen, passing through Dolores, Las Flores, Tapalque and San Carlos, with a branch from Las Floreto Junin, another from Dolores to Azul and another joining the main line with Chascomus, have succeeded in forming a company and will commence active operations.—The Cordoba & Rosario Rd. Co. has completed plans for extending the road from Rosario to Buenos Aires and will soon commence work. Livesay, Son & Henderson, Engrs., 29 Broad St. Ave., E. C., London.

ARKANSAS NORTHERN.—Reports state that Little Rock, Ark., has raised a bonus of $100,000 for constructing this line.

BRAZIL.—Concessions have been granted by the state of Rio de Janeiro to the Teopolaina Ry. Co. for extensions from Areal to Entre Rios, 16 miles, and from Porto dos Caixas to the junction of the Northern and Grao Para lines, 23 miles. F. W. Barrow, Mgr., Rio de Janeiro. Negotiations pertaining to extending the Great Western R. R. of Brazil have been successful, and the line will be linked with the Conde d' Eu line. Follett Holt, Mgr., Pernambuco.

BRAZIL.—K. K. Kenneday, U.S. Consul at Para, Brazil, reports that surveys are being made in the Upper Amazon region for completing the line from Santo Antonio do Maderira to Mamore, about 100 miles. No concession has recently been granted, although some years ago two had been, one to a company who built part of the line but abandoned the work, and later a concession was granted to a Frenchman, but no work was done. The government is anxious to grant a concession, and it is thought that the Bolivian government would also grant a subsidy. Chas. R. Flint, 68 Broad St., New York, is supposed to be interested in the above-mentioned survey.——The building of a line to British Guiana, with branches to Colombia and Venezuela, is also under consideration by English capitalists.——The state of Para is asking bids for building a line from Para to Pinheiro, seven miles. The capital of the company to build the line must not exceed $350,000; a bond for $1,800 must be deposited; the length of time for the bidder using the line must be given before becoming the property of the government; the government will pay not over 6% interest. The government will grant 15 years' privilege for working the road.

BUFFALO, ROCHESTER & PITTSBURG.—A. G. Yates, Pres., Rochester, N. Y., confirms the report in our issue of Dec. 28 that this comapny will soon remove its shops from Bradford to Du Bois, Pa., at a cost of about $300,000. J. M. Ficesch, Ch. Engr., Rochester.

CHARLEROI & MONESSEN CONNECTING.—We are informed that the surveys for this line, recently incorporated in Pennsylvania, to construct a railway in Washington and Westmoreland counties, Pa., have not been completed, and that no contracts will be let before April 1. C. F. Thompson, Pres., Charleroi, Pa.

CHESAPEAKE & NASHVILLE.—It is reported that this line from Gallatin, Ky., on the Louisville & Nashville Ry., to Scottsville, 33 miles, has passed into the hands of the Illinois Central.

CHICAGO, BURLINGTON & QUINCY.—This company will extend its line from Bridgeport, Neb., to Fort Logan, Colo., 140 miles, according to reports. An extension from Alliance to Guernsey, Wyo., into the Hartville iron fields will also be constructed this spring, as an extension of the line from Alliance to Bridgeport, 35 miles, recently completed. The improvements to the system will cost about $1,000,000. W. L. Breckenridge, Ch. Engr., Chicago.

CHICAGO & NORTHWESTERN.—It is reported that contractors have been notified that this company will call for bids for constructing a line from Morville, Ia., to Sioux City, thence to Carterville, S. D., as soon as the Sioux City & Pacific line is disposed of. J. E. Blunt, Ch. Engr., Chicago, Ill. (See issue Jan. 4.)

CHIHUAHUA & PACIFIC.—It is stated that work has been begun on this line, offices at Chihuahua, from Saltillo, Mex., to Torreon, and to connect with the Mexican Central and the Mexican International.

CHILI.—Reports state that a company has been formed to build a line over the Antuco Pass of the Andes from Tome, across the bay from Talcahano, Chili, to Chosmadal, Argentine, where it will meet a railway under construction from Buenos Ayres. Surveys have been made and revised by the department of public works, and it has been found that a road 360 miles long, crossing the mountains through a tunnel at an elevation of 4,980 ft. can be built for about $45,000 a mile, with a 2½% grade.

CHINA.—A concession has been granted to a German syndicate for a line along the Hoang-Ho, work to be begun at once. Capital stock, $10,000,000. The Deutsche Bank, the Disconto Gesellschaft, the Dresdener and the Bleichroders, all of Berlin, Germany, will furnish the capital.

CINCINNATI, NEW ORLEANS & TEXAS PACIFIC.—G. B. Nicholson, Ch. Engr., Cincinnati, O., writes us that no contracts have been let nor bids asked for the construction of the proposed line around Tunnel No. 27, at Emory Gap, near Harriman Junction, 1½ miles in length, for which a survey has been made. S. Spencer, Pres., New York; W. J. Murphy, Gen. Mgr., Lexington, Ky. (See issue Dec. 28.)

COAL & IRON.—C. H. Latrobe, Consulting Engr., 812 Merchants' Bank Bldg., Baltimore, Md., writes us that preliminary surveys have been made for this company's line in West Virginia, 43 miles long, and that bids for two important tunnels are in, for which the contracts will soon be let. This work was advertised in our issue of Dec. 7. H. Q. Davis, Pres., 1725 I St., N. W., Washington.

COLORADO & SOUTHERN.—The company has voted to expend $750,000 for the purchase at once of ten new locomotives, 250 new flat cars and 14 new passenger cars, and for new repair shops. In addition to this $125,000, which remains from the amount set aside for the work during 1900, will be used to complete the Cripple Creek Short Line, in the South Platte Canyon, which will be extended to Horse Creek, about ten miles, and probably further. Plans for the new shops will soon be approved. Frank Trumbull, Pres.; H. W. Cowan, Ch. Engr., Denver, Colo.

COLORADO SPRINGS & CRIPPLE CREEK.—The contract for constructing 23 miles of this company's line has been let to Orman & Crook, Pueblo, Colo. Work on the Colorado Springs end of the line will be started at once. The entire new line will be 38 miles long. Orman & Crook have the most expensive part of the line, which will be a broad gage with an average grade of 3% and the maximum 3½%. At present the grading will be done on about half of the road only.

COLOMBIA.—It is said that work will soon commence on a road between Cuenta and Magdalena, for which a concession was granted Teal, Gonzales & Co., Barraquilla, last May. The terms grant a subvention of $15,000 for each kilometer of road built. On the completion of every two leagues of road the contractors will receive $150,000 of bonds, amortizable in 30 years with the proceeds of 4% of the import duties collected by the Custom House on the Atlantic coast and at Cuenta. During said 30 years, or until the amortization has been effected, the bonds will bear an interest of 6%.

EASTERN OKLAHOMA.—Jas. Dun, Ch. Engr., Topeka, Kan., writes us that this line from Guthrie to Perkins, 30½ miles, was opened Dec. 31, and that grading is in progress from Perkins via Stillwater towards Pawnee.

EAST & WEST.—It is reported that this line, C. P. Ball, Gen. Mgr., Cartersville, Ga., has been purchased by the Kansas City, Memphis & Birmingham, C. G. Warner, Vice-Pres., St Louis, Mo., and the Seaboard Air Line, John S. Williams, Pres., Richmond, Va. The road runs from Cartersville, Ga., to Pell City, Ala., about 120 miles, but will be extended to Birmingham, about 40 miles. The Seaboard Air Line, by using this line and extending the road from Coal City to Birmingham, and by building a short line from Cartersville to Gainesville, Ga., will have a direct line to New York.

ERIE & EASTON.—Ed. Heuer, Secy. and Treas., Erie, Pa., writes us that an ordinance was introduced in the council of Erie for a franchise to enter the city and build a track to Harbor Pond. J. F. Downing, Pres., Erie.

FORT WAYNE, CINCINNATI & LOUISVILLE.—It has been decided, according to reports, to elevate the tracks of this line between Woods Run and Pittsburg, Pa., to abolish the grade crossings. T. H. Perry, Ch. Engr., Indianapolis.

FRANCE.—Reports state that the French Budget Committee has recommended the purchase by the state of the Eastern, Western, Orleans and the Southern railways, although the concessions do not expire until about 1950.

GLASGOW.—H. C. Trigg, Pres., Glasgow, Ky., writes us that there will be no extensions of the road this year. The incorporation was noted in our issue of Dec. 28.

GRAND TRUNK.—Press reports state that it has been decided to begin soon laying another track for this line between Portland, Me., and Montreal, Que. A number of new locomotives will be added to the rolling stock. Jos Hobson, Ch. Engr., Montreal, Que.

GULF & MANITOBA.—E. E. Carpenter, Pres., Beaver Falls, Minn., writes us that track-laying and bridge building between Beaver Junction and Beaver Falls Depot, where the general offices are now situated, is under way.

IOWA, MINNESOTA & NORTHWESTERN.—Plans for constructing this line from Belle Plaine to Mason City, Ia., are reported by local papers to have been definitely decided upon. Work will be started this spring and the heavy grading will be rushed to completion. The entire section will be built from Belle Plaine, and a temporary grade crossing will be put in at Parkersburg. A track-laying machine will be used in the construction, and with its service the line will probably be completed within 50 days. C. T. Dike, Ch. Engr., Mason City, Ia.

LAKE SUPERIOR & ISHPEMING.—Reports from Michigan state that surveys for the extension of this line from Ishpeming to L'Anse, on Keweenan Bay, are about to be started. An extension to the copper district is probable. H. H. Harris, Gen. Mgr.; T. F. Deimbing, Engr., Maintenance of Way, Marquette, Mich.

LEHIGH VALLEY.—Mitchler, Connelly & Donnelly are reported to have received the contract for building the third track for this line from Lehigh to Lizzard Creek Junction, Pa., about four miles, two miles of which will have to be cut through solid rock. N. G. Berg, Engr. Maintenance of Way, Jersey City.

MABIE, MIDDLEFORK & ADDISON.—This company was incorporated in West Virginia Dec. 26 to build a line from Mable to Addison, W. Va.; capital stock, $150,000. W. H. Mabie, Mable, W. Va.; J. G. Stevenson, Pittsburg.

MANISTEE & GRAND RAPIDS.—E. W. Muenscher, Ch. Engr., Manistee, Mich., writes that the company proposes to extend its main line about 11 miles from a point near Luther to Tustin, on the Grand Rapids & Indiana R. R., and possibly 16 miles further to Marion, on the Ann Arbor road. The first section is through a somewhat broken and difficult country. Mr. Muenscher has been engaged for some weeks in making the surveys. This extension is to reach a large body of hardwood timber in Osceola county, and it is probable that when it is completed regular passenger trains will be put upon the road, which has not heretofore been done.

MARIETTA, PARKERSBURG & SUMMERVILLE.—This company was incorporated in Pennsylvania Dec. 30 to build a line from Parkersburg to Marietta, and a line that will tap the coal fields of Clay and Nicholas counties in connection with the Little Kanawha Road. Wm. R. Ryan and Wm. Wiel, Cleveland, and T. J. Barrett, Parkersburg, W. Va., are incorporators. The capital stock is $25,000, with privilege to increase to $5,000,000.

MERCER VALLEY.—This company was incorporated Jan. 4 in Pennsylvania, with $30,000 capital stock, to build a line three miles long, from a point on the Stewart R. R., in Hickory, Mercer county, Pa., to an intersection with the Erie & Pittsburg Ry. F. H. Buhl, Pres., Sharon, Pa.

MILWAUKEE & SOUTHWESTERN.—The organization of this company to build a line from Milwaukee southwest to Mississippi River is reported as being perfected in Chicago and Milwaukee by Warner Miller, 30 Broad St., New York, and Jas. McNaught. The line, which will be about 200 miles long, will cross the Chicago, Burlington & Quincy and the Illinois Central and terminate at the river.

MINNEAPOLIS, ST. PAUL & SAULT STE. MARIE.—Thos. Greene, Ch. Engr., Minneapolis, Minn., writes us that nothing has been done towards improving the terminal facilities for which the city of Minneapolis has granted extension privileges, as stated in our issue of Dec. 21.

MISSING LINK.—W. L. Albright, Pres., Blue Ridge, Ga., confirms our report in the issue of Dec. 21 which notes that surveys are now under way at both ends of the proposed road, viz.: Chattanooga, Tenn., and Walhalla, S. C.; also that the right of way has been partly secured, and that there will be no trouble in securing the remaining. Mr. Albright informs us that several offers have been made for the bonds whenever the company desires to begin construction.

MISSOURI, KANSAS & TEXAS.—It is reported that the contract for the extension of this line from San Marcos to San Antonio, Tex., has been let to John S. Elliott, Booneville, Mo., who will commence work on Feb. 1. It is expected to have the road in operation by June 1. The Menefee Lumber Co., Fort Worth, has received a contract from Mr. Elliott for supplying 150,000 ties necessary for the construction of this line. S. B. Fisher, Ch. Engr., St. Louis.

MOBILE, JACKSON & KANSAS CITY.—F. B. Merrill, Gen. Mgr., Mobile, is reported as stating that a trunk line will be built within 15 months into Jackson, Miss., from the present terminal of this road up the banks of Leaf River to Hattiesburg, thence to Jackson. The company will expend $200,000 in improvements in Mobile, including wharf facilities. R. F. Lane, Ch. Engr., Mobile, Ala.

NEBRASKA & SOUTHERN.—C. J. Rundell, Wayne, Neb., is reported to have planned to build by subscription a railway from Running Water, S. Dak., south to the Gulf of Mexico, varying not more than 2½ miles from the direct line between the terminals. Mr. Rundell states that $50,000 has been secured, and that $150,000 has been pledged.

NORTHERN PACIFIC.—It is reported that soon after Feb. 5, the date ending the six months' truce between the Northern Pacific and the Oregon Ry. & Navigation Co., operations will be started to build a cut-off, leaving the main line at Missoula, Mont., through Bitter Root Mountains, by way of the Lolo Pass down the middle fork of the Clearwater to the main stream. This would save 170 miles and heavy grades. By building down Snake and Columbia rivers to Portland another 100 miles would be saved. The new Clearwater branch extends up that river from the mouth of the Potlatch, 63 miles being under contract, of which 30 miles is now operated. The remaining 33 miles will be ready Jan. 15. E. H. McHenry, Ch. Engr., St. Paul, Minn.; C. S. Bihler, Div. Engr., Tacoma, Wash.

PENNSYLVANIA R. R.—W. H. Brown, Ch. Engr., Philadelphia, writes us as follows: "Nothing whatever has been done toward abolishing the grade crossing in Newark, N. J. Plans are ready to take up the matter with the councils, but this has not been done, and there has been no contract let to B. M. Shanley or any one else. The newspaper article in regard thereto was false in every particular."

PHILADELPHIA & READING.—The double-tracking of the Lebanon Valley branch between Reading and Harrisburg, it is said, will be completed in a few months. Extensive improvements will be made in Reading, including an enlargement of the freight yard at a cost of $400,000. It is also proposed to survey a route from Tuckerton through McKnight's Gap, which divides Mount Penn Mountain about two miles northeast of the city, and thence through Antietam Valley, striking the main line near Exeter station, six miles south of Reading.

PONTA DELGADA, ST. MICHAELS, AZORES.—Bids are asked by the Administrative Council of the District of Ponta Delgada until about March 12 for constructing a railway between Ponta Delgada and Ribeira Grande, according to reports. Address for further information the Portugal Consul-General, Produce Exchange Annex, B 15, New York.

PORTUGAL.—The Royal Portuguese Ry. will build a line from Santerem to Cendes Trovas. Senhor Paul Chapuy, Mgr. Dir., Santa Clara 142, Lisbon.

PRINCE EDWARD ISLAND.—The bids for constructing 12 miles of the proposed southern railway belonging to the state have been received, according to reports, and forwarded to the authorities at Ottawa. G. A. Sharp, Supt.; H. Houle, Roadmaster, both of Charlottetown, P. E. I.

SHEFFIELD & TIONESTA.—This company was incorporated Jan. 6 in Pennsylvania, with $235,000 capital stock. T. D. Collins, of Nebraska; E. S. Collins, Ostrander; O. Siggins, West Hickory, Pa., are incorporators.

SHERMAN, SHREVEPORT & SOUTHERN.—The contract for extending this line from Jefferson to Waskom, Tex., is reported to have been let to Grigsby Bros., who will complete the line by the last of May, commencing work at once.

SOUTHERN.—J. N. Culton, Knoxville, Tenn., writes us that the surveys for the proposed branch known as the K. & A., have been completed, but it has not been decided to begin construction.

SOUTHERN PACIFIC.—The work on the Caney Valley extension (Texas) is said to be progressing rapidly; surveys have been completed. Surveying parties are making inspections in Nevada and Utah for new routes and cut offs. J. B. Berry, Ch. Engr., Omaha, Neb.

SWEDEN.—Reports state that the Royal Administration of State Railways, Stockholm, has asked the government for authority to spend about $1,000,000 for new rolling stock, etc. F. A. Almgren, Dir. of Rolling Stock, Stockholm.

TENNESSEE & ALABAMA MINERAL.—R. M. Quigley & Co., Rialto Bldg., St. Louis, Mo., and Lawrenceburg,

Tenn., who have the contract for constructing this road from Lawrenceburg to Smith Ore Banks, Tenn., writes us that the construction of this line is now under way, and will be rushed to completion. Sub-contracts have been let. J. Craig McLanahan, Pres., Nashville, Tenn.; R. Montfort, Ch. Engr., Louisville, Ky. Note of the contract being let was made in our issue of Dec. 28.

TURKEY.—Reports state that the French promoters of the Beirut-Damascus Ry. expect to obtain compensation from a concession to extend the railway to Mesopotamia to connect with the proposed Konieh-Baghdad line of the German Anatolian Rys. Co., noted in our issue of Dec. 28. The latter line will be about 1,625 miles long. It is also proposed to extend the Beirut-Damascus line to Hamah. Those interested in these proposed lines from Smyrna to the Persian Gulf are: M. Berger, Dir. Ottoman Bank of Paris; Dr. Geo. von Siemans, Dir. Deutsche Bank of Berlin, and the Smyrna, Cassaba & Extension R. R. Co., Constantinople, Paris, and 21 Mincing Lane, E. C., London.

UNION PACIFIC.—The contract for grading this line from Tip Top, Wyo., to Rawlins, Neb., 40 miles, has been let to Kilpatrick Bros. & Collins, Beatrice, Neb., who will commence work at once. The contract will call for the removal of about 10,000,000 cu. yds. of earth.

UNIONTOWN, WAYNESBURG & WHEELING.—This company has been organized to build a road over the Wheeling & Connellsville route, Pennsylvania. The company is capitalized by Pittsburg men, who have thus far subscribed $100,000 in stock.

UNITED STATES & WEST INDIES R. R. & STEAMSHIP CO.—This company will soon be incorporated at Plant City, Fla., with a capital of $1,000,000, to construct a line from Plant City to a crossing on the Manatee River, thence southerly through Manatee county upon Gasparilla Island, Charlotte Harbor, De Soto and Lee counties, with spurs and branches to various points en route, to acquire already constructed roads, or portions of roads, between the points, and to operate steamships between the United States and points in the West Indies. J. L. Young, M. E. Moody, W. L. Lowe, C. Thompson and A. Schneidman are interested.

URUGUAY.—A petition for a concession from E. H. Vellozo & Co. for a road from Trico Perez to Artigas on the Brazilian frontier, passing through Treinta y Tres and Melo, has been favorably received.

WAYCROSS AIR LINE.—J. E. Nadley, Pres., Waycross, Ga., writes us that the right of way for this line, which will extend through Waycross, Nichols, Douglas, Vickers and Fitzgerald, 75 miles, has nearly all been secured, and that the contract for 8½ miles has been let to Beck & Co., Fitzgerald, Ga. All of the construction capital has not yet been secured. Alex. Bounyman, Ch. Engr., Waycross.

STREET AND ELECTRIC RAILWAYS.

PORTLAND, ME.—Percy N. Richardson, Ch. Engr., writes that the surveys for the Atlantic Shore Line, which will extend through Biddeford, Kennebunkport, Wells and York, 28.9 miles, are about completed, but that nothing further towards the construction will be done until a charter is obtained from the railroad commissioners. This line will be run by electricity and not steam, as incorrectly stated in our issue of Dec. 14. E. M. Goodall, Pres., Danforth, Me.

BURLINGTON, VT.—Robert Avery, Vice-President and Gen. Mgr., Burlington & Hinesburgh R. R. Co., writes us that information published in our issue of Dec. 7 purportings to come from him, was erroneous. What he had intended to say was that the surveys have been completed, the rights of way obtained, capital secured, nearly the whole of the road graded— all, indeed, except about 1½ miles—five miles of track laid, culverts, trestles and bridges built, and the electric work will be finished and the road put in operation about June 1. The line between Burlington and Hinesburgh is 15 miles long. The line from Burlington to Shelburne Falls (another line altogether) is 7 miles. The road passes through Burlington, South Burlington, Shelburne, St. George and Hinesburgh. When completed, the road from Shelburne Falls will be connected by a line running southeast with the main line south of Shelburne Pond, the total mileage of both lines will be about 23 miles. The company has a charter to build in a southeasterly direction across the state to a connection with the Boston & Maine R. R.

BOSTON, MASS.—It is reported that rails for the construction of the Milford, Woonsocket & Attleboro St. Ry. Co.'s line have been received and that the work will be started early in the spring so as to complete the entire system of 43 miles by Aug. 1.

SOUTHBRIDGE, MASS.—Edwin Phillips writes us that surveys for the Southbridge & Charlton St. Ry., an electric line extending through those towns, about nine miles, have been completed, and the contract for construction let to Chas. E. Barnes, Malden, Mass., who will commence work as soon as weather permits. About 28 car loads of rail have already been received. Upon completion of the present line it is proposed to extend it to Worcester from Charlton Depot, about 12 miles. (See issue of Dec. 21.)

SOUTH FRAMINGHAM, MASS.—The Framingham, Southboro & Marlboro St. Ry. Co. has petitioned the selectmen of Framingham to run its cars over the Union St. Ry.'s tracks to South Framingham. A public hearing will soon be given to decide the matter.

WESTBORO, MASS.—The selectmen have granted the Marlboro & Westboro Electric Ry. Co. permission to construct a single track railway in this place. The construction will be started before May 1, and the line completed in eight months.

ALBANY, N. Y.—The New Paltz & Poughkeepsie Traction Co. was incorporated Jan. 4, with $100,000 capital stock, to operate a street railway from Poughkeepsie ferry at Highland to New Paltz, on the New Paltz turnpike, about nine miles. Wm. L. Supplee, Philadelphia, Pa.; Chas. W. Dayton and Oliver S. Carter of New York, are interested.——The Albany Ry., the Troy City Ry. Co., and the Watervliet Turnpike & R. R. Co. have been reorganized under the name of the United Traction Co.; capital stock, $4,000,000. Robt. C. Pruyn, Pres., Albany; Clarence Cleminshaw, Vice-Pres., Troy; John N. McNamara.

ALBANY, N. Y.—The New York & Nassau County Ry. Co. has been incorporated with $150,000 capital, to build an electric road, 7 miles long, from Hempstead to Jericho turnpike, on the Hempstead and Jamaica Plank Road. Daniel Noble, Long Island City, L. I.; Patrick J. Mara, Flushing, and Jos. Bermel, Middle Village, are interested.

RYE, N. Y.—A franchise has been granted to the Tarrytown, White Plains & Mamaroneck R. R. Co. by the road committee to build a trolley line in the Boston Post Road from Rye to Mamaroneck, according to reports.

SIDNEY, N. Y.—It is reported that the Sidney Electric Light Co. is advertising for 30,000 railroad ties to be delivered by April 15 for the proposed Sidney-Franklin Electric railway.

CAMDEN, N. J.—Local papers state that the Camden & Suburban Ry. Co. is considering an extension to Palmyra. Franchises at Trenton, Bordentown and Burlington have been secured.

ALLENTOWN, PA.—The Allentown & Bangor St. Ry. Co. has been incorporated to construct an electric road from Catasauqua to Bangor, about 20 miles. The capital stock is $125,000. A. L. Johnson, Pres., New York; G. N. Hiney and H. C. Barrow are interested.

COLUMBIA, PA.—Local papers state that the Conestoga Traction Co. will begin the construction of a line to Maytown, as soon as the right of way is secured. The line will be three miles long and will connect with the terminus of the Columbia & Donegal R. R. in Marietta. Engineers are now making surveys for the proposed route. It is also proposed to extend the company's lines to the eastern part of Lancaster county, reaching Manheim and New Holland.

LANCASTER, PA.—The Lancaster, Mechanicsburg & New Holland Electric Ry. Co. has been incorporated with $150,000 capital, to build a line from the city limits to New Holland, 14 miles. Wm. B. Given, Pres., Columbia.

DOVER, DEL.—The Delaware Electric Ry. Co. has received permission from the Levy Court to construct a road from Dover to Woodland Beach. John D. Hawkins is interested.——Local papers state that the council has accepted the $10,000 bond of the Delaware General Electric Ry. Co. to begin the construction of a street railway through Dover, within nine months.

NEW CASTLE, DEL.—Bids will be received by the New Castle & Delaware City Electric Line until Jan. 15 for constructing its proposed line, according to reports. Edward Curry, Supt. the Fairmount Construction Co., Philadelphia, is said to have made inspections of the route with a view to preparing bids for the work.

FAIRMOUNT, W. VA.—The Fairmount St. Ry. Co. has been incorporated with $1,000,000 capital stock to build in Marion, Monongalia and Harrison counties. Thos. A. Neal, Amos; Thos. W. Fleming, and Chas. E. Manley, of Fairmont, are interested.

CLEVELAND, O.—The Cleveland Electric Ry. Co. has petitioned the council for extensions to its line.——The grade crossing commission will recommend to the council that the street railway companies will bear 35% of the entire cost of abolishing crossings with a guarantee that the city will reimburse the companies at the expiration of their franchises.

COLUMBUS, O.—The county commissioners on Jan. 3 granted a franchise to the Columbus, Buckeye & Newark Traction Co. to build a line over the route proposed some time ago: (See issue of Dec. 21.)

FINDLAY, O.—The Hancock Light & Power Co. has been purchased by the Findlay St. Ry. Co. for $40,000. The street railway will be extended to Mortimer, five miles north of the city, where it will connect with the New York, Chicago & St. Louis R. R. The grading for this line is nearly finished. Geo. B. Kerper, of Cincinnati, is the owner.

MASSILLON, O.—W. A. Lynch, Pres. Canton-Massillon Electric Ry. Co., has asked the council for an extension of the company's line to Navarre. The proposed line will be standard gage. Work will be started at once on the Navarre line, and the old road will be made a standard gage. A 25-year franchise on all lines will be asked.

TIFFIN, O.—J. F. Bunn writes us that Toledo, Tiffin & Sandusky Ry. Co. will be organized about Jan. 20, when the company's officers will be selected. The right of way and the capital have been mostly secured. The company will do most of its own construction on this line, which will be nearly 100 miles long. We noted further details of this line in our issue of Nov. 30.

TOLEDO, O.—The Toledo & Western Ry. Co. has been incorporated with $1,800,000 capital stock to construct an electric line from West Toledo to Morenci, Mich. A branch will be built from Seward to Adrain, Mich. The entire length will be 47 miles. Construction to begin by Feb. 1. F. E. Seagrave, Toledo; G. E. Herrick and E. H. Hopkins, of Cleveland, are interested.

UPPER SANDUSKY, O.—It is reported that Israel A. Kelsey, Pres. Ohio Central Traction Co., New Haven, Conn., has started a preliminary survey of the route for an electric railway connecting Galion, Cresthill and Bucyrus with this city.

FORT WAYNE, IND.—The Indiana & Ohio Traction Co., which is to build an electric railway from Hicksville, O., to Marion, Ind., by way of this city is said to be negotiating for the purchase of the line now operating from Marion to Gas City, known as the Jasper Gaunt line, which will be continued by way of Noblesville and Tipton to Indianapolis. Jas. H. Simonson, Pres.

HAGERSTOWN, IND.—J. O. Barrett, Asst. Mgr., is reported as stating that as soon as the line of the Indianapolis & Greenfield Electric Ry. Co. is completed to Greenfield, from Indianapolis, the work of extending it will be started at once. A line to Knightstown, 12 miles east of Greenfield, will be included, and a spur south to the Soldiers' and Sailors' Home will be built. Also a branch line to Newcastle, to Hagerstown and Richmond. The road will eventually reach Cincinnati.

DETROIT, MICH.—J. M. Mulkey, Treas. and Gen. Mgr., writes us that the survey for the Toledo & Monroe Ry., an electric line to extend through Toledo, Erie and Monroe, 22½ miles, has been completed, and two-thirds of private right of way secured. Specifications are being prepared, and when finished the contract will be let. The capital for construction has been secured. O. A. Black, Pres., Detroit; T. G. White & Co., Ch. Engrs., 29 Broadway, New York.

CHICAGO, ILL.—A hearing will be given by the committee on streets and alleys north, on the question of allowing the Chicago, Milwaukee & St. Paul Ry. Co., to equip its lines with trolley.

JOLIET, ILL.—Local papers state that the Joliet Ry. Co. proposes to extend its line to Plainfield and Manhattan this spring.——A franchise will probably be asked by an independent company to construct a line from Green Garden north to Tinley Park.

WHEATON, ILL.—B. Mahler, Pres., Cleveland, O., writes that nearly all of the rights of way for the Aurora, Wheaton & Chicago Ry. have been obtained, and that the capital for the construction has been secured. Contracts will be let within six weeks. The line will be operated by electricity, and will be about 60 miles long. Chas. Jones, Ch. Engr., Wheaton, Ill.

APPLETON, WIS.—It is reported that the Fox River Valley Electric Ry. Co. has purchased the property of the Appleton Edison Electric Co., which includes an electric road two miles long and the entire city lighting system. The line will probably be rebuilt.

SILOAM SPRINGS, ARK.—The council is reported to have granted a franchise to E. P. Watson and others to build a street railway in this city.

EAGLE PASS, TEX.—Local parties, it is stated, have organized a company and subscribed the capital to build a tramway from Nava, the first citation on the Mexican International, south of here, to Zaragoza, via Morelos. The road will be about 15 miles long. Work on the road from Barotevan to the coal mines near here has been postponed until the Mexican Government accepts the plan.

BERKELEY, CAL.—M. L. Hanscom, Town Clk., writes us that no bid has been received for the purchase of the street railway franchise for which the Oakland R. R. Co. asked.

COLORADO SPRINGS, COLO.—C. M. Coleman, Pres., writes us that the route for the Colorado Springs St. Ry. & Improvement Co.'s electric line, through this city to Manitou and Cheyenne Canon, 15 miles, has been partly surveyed and the right of way obtained. Some of the construction capital has been secured. It is not yet decided when the contracts for construction will be let.

CHIHUAHUA, MEX.—Work will soon be begun on constructing and extending the street railways of this city. Certain contracts, it is said, have already been let. The line will be 6 miles long. Other towns in Mexico will soon have electric lines. John E. Earley, Engr., Calle Ortega, No. 28, Mexico City.

SAN JOSE, COSTA RICA.—A concession has been granted to Francisco Mendiola Boza for an electric line between San Jose and Heredia.

HONOLULU, H. I.—Reports state that about 300 miles of railway will be built this year in the Hawaiian Islands. Thos. L. Johnson, Cleveland, O., and Albert Johnson, Brooklyn, N. Y., will do most of this work in the Island of Oahu, construction to begin in February. Considerable material has already been ordered. The Kohala & Hilo Ry. Co. will soon let a contract for the first section of its electric road, from Honolulu to Kohala. This road will be 130 miles long, and will cost about $2,300,000. R. E. Condon, Railway Contractor, Chicago, Ill., may be able to give information.

LIMA, PERU.—A concession has been granted to Louis Lastres y Riglos for a tramway in Lima; length, 5,600 meters, exclusive of turnings; gage, 1.44 meters, weight of rails, 9 kilos. 920 grams per meter and 75 millimeters in height.

GREAT YARMOUTH, ENG.—Bids are asked until Jan. 30 for furnishing about 800 tons of 80 to 90-lb. steel girder tramway rails, deliveries to commence June 1 and be completed Sept. 1. J. W. Cockrill, Borough Surv.

LEEDS, ENG.—The Leeds City & Suburban Ry. Co. has applied for a charter to construct an electric line to be about 9½ miles long; capital stock, $6,000,000.

MANCHESTER, ENG.—The Manchester & Liverpool Electric Express Ry. Co. has applied for a charter to build a line 34½ miles long; capital stock, $10,000,000. R. J. Strutt, J. B. Bergheim, Wm. Mather and E. T. Broadhurst are interested.

DUNDEE, SCOTLAND.—The Dundee & East of Fife Tramway Co. has applied for a charter to build an electric line, certain bridges, etc.; capital stock, $1,200,000.

SWITZERLAND.—The Swiss Federal Council has granted a concession for an electric road on the Jura-Simplon Ry. to connect Loeche with the main line, 1½ miles; also from Loeche to Loeche-Les-Bains, 5½ miles. The work will be in charge of R. Weyerman, Engr-in-Ch. Jura-Simplon Ry., Berne.

KOBE, JAPAN.—Reports state that contracts amounting to about $1,000,000 will soon be let for equipping and extending the Haushin Electric Ry. Seizo Misaki, Ch. Engr., Kobe.

ELECTRIC LIGHT AND POWER.

AUBURN, ME.—W. W. Wiggin, Mayor, writes us that the matter of cost for a plant is being investigated. A local paper states that the report will be presented to the citizens at an early date. Several propositions are being considered. The five-year contract with the American Light & Power Co. expires in September.

PORTLAND, ME.—The Consolidated Electric Light Co. has recorded a mortgage for $500,000, and it is stated that about $300,000 of this amount will be used in extending the business.

WEST DUMMERSTON, VT.—We are informed that the scheme for an electric plant is as yet only in a preliminary stage. Sketches and estimates have been made by E. C. & E. Davis, Northampton, Mass.

PUTNAM, CONN.—E. N. Sanderson, Gen. Mgr. People's Tramway Co., writes us that the following machinery for the plant has not yet been purchased: Boilers for 1,500-HP. engine, three 640-HP. wheels, etc. Bids are wanted at once for this machinery, which is for a plant for power and railway purposes; estimated cost, about $300,000. W. H. Lang, Engr., Burlington, Vt.

AMSTERDAM, N. Y.—W. L. Adams, Pres. Niagara Electric Equipment Co., writes us that the Empire State Power Co., Amsterdam, will build a three-phase transmission line, to cost about $30,000, from Amsterdam to Howe's Cave, about 25 miles. Bids are wanted at once for poles, cross arms, etc. W. C. Johnson, Engr., Niagara Falls, N. Y.

BLACK BROOK, N. Y.—It is stated that the Rogers Co. will erect a plant to furnish power to its mill.

GLENS FALLS, N. Y.—E. L. Ashley, Pres. Hudson River Water Power Co., Glens Falls, writes us that plans for the proposed plant, to cost about $1,000,000, are being prepared by Wm. Barclay Parsons, 22 William St., New York.

NEW YORK, N. Y.—The New Amsterdam Gas Co. it is reported, is preparing plans for an electric plant and transmission wires. Jas. Jourdan, Pres., 340 Third Ave. ——The interests of the Consolidated Gas Co. and the N. Y. Gas & Electric Light, Heat & Power Co. have been merged.

SAG HARBOR, N. Y.—Robt. K. Story, Mgr. Artesian Well Drilling Co., 44 Centre St., New York, writes that plans, etc., are being prepared for plant for the Sag Harbor Electric Light & Power Co., and that they will be completed in about two weeks.

YONKERS, N. Y.—M. J. Walsh, Pres. Council, writes us that it has only been proposed to build a plant.

BELLEVILLE, N. J.—The Belleville Light, Heat & Power Co. has applied for a franchise. Percy Jackson, Counsel.

PAULSBORO, N. J.—E. L. Leonard writes us that Wm. J. Adamson has applied for a franchise for a plant and water-works.

WOODBURY, N. J.—Bids are asked until Jan. 16 for lighting this place for one year from May 15 with electricity, gas or gasoline. D. T. Mathers, Cy. Clk.

ALLENTOWN, PA.—L. P. Muthart, Supt. Allentown & Kutztown Traction Co., writes us that the company has decided to build a power house. For further information write to G. H. Gerber, Pres., Pottsville, Pa.

HARRISBURG, PA.—Reports state that the Harrisburg Electric Light, Heat & Power Co. has a five-year contract for lighting the Capitol Building and grounds, the Executive Mansion and the State Arsenal for $20,000 a year.

HAZLETON, PA.—S. J. Hughes, Cy. Clk., writes us that nothing has yet been done towards securing a municipal plant. An ordinance was passed authorizing the specifications. The present contract expires Aug. 1.

SCRANTON, PA.—We are informed that a resolution is pending in the councils directing that bids to furnish and maintain electric street lights for ten years be asked. The purchase of a plant of any description in the near future is not probable, because there is no available funds for any such purpose. In order to raise funds the matter would have to be submitted to the electors. If the councils now concluded to make an effort to erect a plant it would be impossible to get the matter in shape during the present year.

YORK, PA.—Bids are asked until Feb. 15 for lighting the city for the year beginning April 1. Frank Deburt, Secy. Com.

ROCKVILLE, MD.—Reports state that the Great Falls Power Co., Washington, D. C., has begun work on its proposed plant at Great Falls, to cost about $2,500,000.

FREDERICKSBURG, VA.—We are informed that nothing has yet been done towards the construction of a plant. Address T. McCracken.

ASHEVILLE, N. C.—Bids were received Jan. 5 for lighting the city for five years.

CHARLESTON, S. C.—J. H. Dingle, Cy. Surv., writes us that plans and specifications for electric lighting and water-works have been prepared by J. L. Ludlow, Winston, N. C., but the financial scheme is not yet perfected.

ATLANTA, GA.—The Georgia Electric Light Co. has been granted authority to proceed with the construction of its conduits.——The council street committee has voted to grant a 50-year franchise for a heating plant to the Atlanta Ry. & Power Co.

GAINESVILLE, GA.—Reports state that the Chatahoochee Electric Power Co. wishes to purchase a water-wheel and electrical dynamo, capacity, 1,000 HP.; five miles of wire, motors, water-gates, etc.; also wants material for an incandescent plant to furnish from 1,500 to 2,500 lights.

LA GRANGE, GA.—J. T. Johnson, Cy. Clk., writes us that an election will be held Feb. 1 to vote on the proposition of issuing $15,000 in bonds for plant for this city.

IRVINE, KY.—Bids are asked until Jan. 22 for the purchase of a franchise for a plant, electric railway and water-works, according to reports. S. L. Tudor, Chn. Com.

GLENVILLE, O.—The question of the municipal ownership of the plant, to cost about $40,000, may probably be voted upon Feb. 10. G. W. Glick, Chn. Com.

TOLEDO, O.—Alderman Fisher is preparing an ordinance authorizing a tax of one mill for five years, approximating $250,000, for a city plant.

FRANKFORT, IND.—Bids are asked until Jan. 22 for building a plant to cost about $60,000, according to reports. H. E. Wells, Engr.; Otto Wolf, Cy. Clk.

WASHINGTON, IND.—The question of a municipal plant is being considered by the committee, composed of J. F. McGehee, Chn.; W. Q. Williams and A. J. Dant.

GRAND RAPIDS, MICH.—Alderman Bissell has prepared an ordinance authorizing the Edison Light Co. to put certain of its wires underground.

MUSKEGON, MICH.—Alderman R. H. McCracken writes us that the city is lighted by the Muskegon Electric Light Co., but the service is claimed to be unsatisfactory. A committee, with Mr. McCracken as chairman, has been appointed to secure information regarding municipal plants, the maintenance, etc. Population, 25,000.

SAGINAW, MICH.—Bids are asked until 4:30 p. m. Jan. 13 for lighting the streets, parks, etc., for five or ten years from Sept. 30 on the following basis: Thirteen towers, 4 lights each, and 48 pole and mast-arm lights in the Western District, and 162 pole and mast-arm lights in the Eastern District. A. F. Lewis, Controller.

WEST SUPERIOR, WIS.—Reports state that G. V. Burgess, of the Burgess Electrical Co., Duluth, Minn., and Wm. C. Sargent, Superior, have purchased about 600 acres of land adjacent to the falls on Black River in this county, and propose to develop the water power. Surveys have been made, and it is claimed that 100,000 HP. can be furnished. It is proposed to transmit the electricity to this city, about 14 miles. In connection with this deal it is proposed to erect a paper mill to employ 150 men.

WELLINGTON, KAN.—This city has voted to issue $14,000 in bonds for a plant.

WICHITA, KAN.—W. B. McKinley has been granted permission to build a plant before July 1, to have a capacity of 225 2,000-c. p. lights, and has also been awarded the contract to light the streets, etc., for five years from July 1.

ST. LOUIS, MO.—The Citizens' Electric Light & Power Co., recently organized, with a capital of $6,000,000, is reported as letting contracts for the machinery, etc., for its proposed plant on the east side, to cost about $3,000,000. C. H. Ledlie, Ch. Engr., 816 Rialto Bldg., St. Louis; H. J. Hanford, Mgr.; J. S. Walsh, Pres.

MONTICELLO, ARK.—Bids are asked until Feb. 10 for constructing a plant and waterworks, as stated in our advertising columns. R. L. Hardy, Secy.

FULSHEAR, TEX.—It is stated that H. E. Thompson wants bids for a plant with a capacity for 200 32-c. p. incandescent and 15 2,000-c. p. arc lights.

DENVER, COLO.—Reports state that the Denver Union Water Co. has announced that it will install a plant of 21,000 HP. to supply a current for the city, transmitting it about 20 miles. The company is building a dam 50 miles up Platte Canyon.——The Bennett & Myers Co. has submitted a proposition for a plant to Mayor H. V. Johnson. For this plant about $300,000 is said to have already been subscribed. The company will supply the city at present rates, 30% to go to buy the plant, which could be done in 10 years. Local papers state that the mayor has promised that something towards building a plant will soon be done.

GILLETT, COLO.—Thos. H. Smith, Elec. Engr., Denver, has sold the plant and franchises of the Gillett Light & Power Co. to the Woods Investment Co. It is said that the plant will be extended.

LOVELAND, COLO.—It is stated that a company is being formed to build a plant; population, 2,000.

BOISE, IDAHO.—The People's Electric Co. has been granted a 25-year franchise to establish electric light lines in this city. This company is controlled by the company which is building a plant at Payette to develop 6,000 HP. C. K. Bannister, Ch. Engr., Ogden, Utah.

TACOMA, WASH.—Bids are asked until Jan. 22 for furnishing a dynamo. W. E. Hacker, Comr. Pub. Wks.

VALLEJO, CAL.—Bids are asked until Feb. 21 for the purchase of a franchise for a transmission line. C. F. Mugridge, Cy. Clk.

OTTAWA, ONT.—Dr. Arcy Scott writes us that on Jan. 1 the people voted by a majority of over 800 in favor of a municipal plant, but as yet the council has not taken action in the matter.

TEPIC, MEX.—M. P. King, Civil and Elec. Engr., it is stated, has made a contract to construct a plant. A water power plant is proposed to utilize the water power on the Tula River, between Tepeji del Rio and Dublan by Jose Castellot. An electric road is proposed for Uruapam (Michoacan).

JAMAICA.—Reports state that a syndicate has acquired the Electric Tramway Co.'s rights in Jamaica and the lighting and tramway services in Georgetown, Demerara, and they also have an option on the electric lighting and tramway of Port of Spain. The application of the Demerara Electric Co. for a license to construct and operate tramways and lighting plants in Georgetown, Demerara, has been granted. Capital stock, $850,000. Wm. Van Horne, W. B. Chipman, of Montreal, Que.; and B. F. Pierson, of Halifax, N. S., are interested.

AZUL, ARGENTINA.—Luis Dhers, Azul, has purchased an old mill and intends to convert it into an electric station to supply light and power.——As has been before reported, the Board of Illumination of Buenos Ayres proposes to build a plant in that city to have 8,000 arc lights distributed over an area of 5,300 squares.

BARKING, ENG.—Bids are asked until Jan. 23 for machinery for a plant. W. C. C. Hawtayne, Engr., 9 Queen St. Pl., London, E. C.; E. H. Lister, Clk.

GOTHENBURG, SWEDEN.—Robt. S. S. Bergh, U. S Consul, Gothenburg, reports that there will be a great demand for electrical machinery as soon as the people have fully learned the value of their numerous waterfalls. An electric plant will soon be built at Trollhattan; electric railways and tramways are being planned for Gothenberg, Lund, Bjerrod, and Jonkoping.

FROSINONE, ITALY.—Reports state that this place will soon ask for bids for electric lighting; population, 11,000. The New York "Journal of Commerce" states that La Societa di Construzioni Electrichi, Milan, has been organized to acquire the electrical engineering business of Breschi, Finzi & Co.; capital stock, $500,000. The Italian government has approved the proposition to adopt electricity on the railways between Milan and Varese. La Societe des Chemins de Fer Vicinaux Italiens, at Rome, is preparing plans for a projected electric railway between Alessandria, Bassignana and Valenza. The central power station will be established at Bessignana.

BRIDGES.

NEW HAVEN, CONN.—Alex. Troup, Dir. Pub. Wks., has recommended the construction of a new bridge to replace the Tomlinson bridge as it would cost about $30,000 to make the necessary repairs to the present structure.

SPRINGFIELD, CONN.—A preliminary report was submitted to the municipal government finance committee on Dec. 27 on the plans of the proposed bridge over the Connecticut River to replace the present toll bridge.

COHOES, N. Y.—The contract for the construction of abutments to a bridge over the Erie Canal near Cohoes, was let by John D. Partridge, Supt. Pub. Wks., on Jan. 6, to Baker & Judson, Gloversville, at $3,055.

MOUNT VERNON, N. Y.—The council has adopted resolutions relating to the abolishing of grade crossing. One resolution instructs the commissioner of public works to prepare plans for a viaduct over the tracks at Mount Vernon Ave., doing away with the grade crossing at that place.

NEW YORK, N. Y.—The ordinance adopted by the municipal assembly recently requiring the New York & Harlem R. R. to erect bridges over its tracks on Park Ave., at 99th, 100th and 101st Sts., became effective on Jan. 4, but have not been signed by the mayor.

NEW YORK, N. Y.—Mayor Van Wyck has signed the ordinances for the issuance of $1,000,000 in bonds for the construction of a bridge over the East River from Peck's Slip, Manhattan, to Washington St., Brooklyn, also an ordinance to proceed with the construction of the bridge and the ordinance for an issuance of bonds for the bridge connecting Manhattan and Queens over Blackwell's Island.

ROME, N. Y.—The question of erecting a new steel lift bridge to replace the iron structure now spanning the Black River Canal, at East Dominick St., is being considered; estimated cost $14,000.

YONKERS, N. Y.—The bridge crossing Caryl Ave., owned by the Putnam of the New York Central R. R., has been condemned by Samuel Cooper, Comr. Pub. Wks., who recommends a new structure built at once.

ALLEGHENY, PA.—The proposition of issuing $5,000,000 for freeing the Union, 6th, 7th, 16th and 43rd St. viaducts between Pittsburg and Allegheny, will probably be put to vote.

READING, PA.—It is reported that the viewers of Berks county have recommended a bridge over Tulpehocken Creek near Krick's Mills. Plans have not yet been prepared.

SCRANTON, PA.—An ordinance providing for the construction of a viaduct on West Lackawanna Ave, was passed by the council on Dec. 29.

HAMILTON, O.—Plans for a 150-ft. bridge over Dry Fork at New London, to cost about $6,000, and for a $2,300 bridge over Darr's Run, at Darrtown, was submitted by Engineer Dillon to the county commissioners on Dec. 29.

TOLEDO, O.—Bids are asked until Jan. 30 for repairing bridges over Maumee River, between Maumee and Perrysburg, according to reports. Wm. M. Godfrey, County Audr.

BAY CITY, MICH.—The question of constructing viaducts at the Washington and Midland St. crossings of the Michigan Central R. R. is being considered.

SAGINAW, MICH.—H. E. Terry, Cy. Engr., Saginaw, writes us that nothing definite has been done towards the construction of the proposed bridge over the Saginaw River at Geneva Ave., as the plans have not been approved by the War Department. The proposed structure will have six spans of various lengths and will be 70 ft. in width, with five steel arched girders and bascule draw and stone foundation.

ELGIN, ILL.—The council has rejected all bids for bridge construction and new bids will be advertised for.

PEORIA, ILL.—A. D. Thompson, Cy. Engr., writes us that there is no prospect of constructing a viaduct at the foot of Chestnut St., in the near future.

MILWAUKEE, WIS.—An ordinance was introduced in the council on Jan. 2 for the construction of a viaduct to connect the south and west sides of the city, by spanning the Menominee Valley, at 27th St. City Engineer Poetach submitted estimates for the cost of the structure which amounted to $325,000 and $20,000 for the land.

OGDEN, IA.—It is reported that the Chicago & Northwestern Ry. Co. has prepared plans for a new double-track steel bridge, which it proposes to erect over the Des Moines River, between Boone and Ogden. The structure will be 2,685 ft. in length, and will have 40 spans. J. E. Blunt, Ch. Engr., 22 Fifth Ave., Chicago.

MINNEAPOLIS, MINN.—Local papers state that the Chicago, Milwaukee & St. Paul R. R. will erect a steel bridge over the Mississippi River to replace the short line structure between the twin cities. Plans are now being prepared for the structure by Onward Bates, Engr. and Supt. of Buildings and Bridges, Chicago.

PINE CITY, MINN.—The contract for the construction of a new wagon bridge over the Snake River at this place was let to Levi Ardner on Jan. 3, at $2,715.

KEARNEY, NEB.—It is reported that bids are wanted by the board of supervisors for repairing the Platte River bridge.

WARRENSBURG, MO.—Bids are asked, according to reports, by the road and bridge committee of the county court until Feb. 8, for constructing seven iron and combination bridges from 80 to 20 ft. in length.——It is also reported that contracts for twenty-five other structures of various lengths will soon be let. Address Geo. T. Gallagher, Knobmaster.

ANACONDA, MONT.—Bids are asked until Jan. 15 for constructing a bridge over the Missoula River to replace the one recently destroyed by fire. D. E. Bandman.

REDWOOD CITY, CAL.—Bids are asked, according to reports, until Jan. 15 for constructing a bridge over Pilarcitos Creek, at Spanishtown (wooden?). M. H. Thompson, County Clk.

SACRAMENTO, CAL.—The board of supervisors have been petitioned by the residents of Fair Oaks and Orangevale for the erection of a bridge over the American River about five miles below Folsom.

WINGHAM, ONT.—Bids are asked until Jan. 20 for constructing the substructure for a bridge to be erected over ris and East Wawanash, about ½ mile south of this place, to have one span 100 ft. long. John Ausley, County Comr.

REGINA, N. W. T.—Bids are asked until Jan. 15 for constructing the sub-structure for a bridge to be erected over the Bow River, near Cochrane, according to reports. Plans at the office of the Irrigation Surveys office, Post Office Bldg., Calgary. J. T. Dennis, Deputy Comr. of Provincial Pub. Wks.

BUILDINGS.

BOSTON, MASS.—Bids are asked until Jan. 15 for erecting a school building at Parker, Willis and Caldwell Sts., Roxbury; check, $1,000. E. I. Aldrich, Chn. Bldg. Com. ——It is stated that Alfred E. Aarons will erect a 3-story brick theatre at Tremont St. and Van Rensselaer Place, to cost about $225,000.

PAWTUCKET, R. I.—Plans have been prepared by N. M. Isham and F. J. Anthony for a church building for St. Paul's Church, at Park Place and Church St., to cost about $45,000.

BROOKLYN, N. Y.—Plans have been filed by Bertha Hagedorn, 227 13th St., for two 4-story brick flats at Bedford Ave. and Sterling Place, to cost about $56,000—F. S. Lowe, Arch., 186 Remsen St.; by the city of New York for a 4-story brick school building at Meserole Ave., near Lorimer St., to cost about $210,000. C. B. J. Snyder, Arch., 59th St. and Park Ave., New York.

BROOKLYN, N. Y.—The following bids were received Jan. 8 by the Department of Education: For erecting Public School 126, Brooklyn: William P. McGarry, 236 Horton St., Brooklyn, $198,787; William H. Post, $201,948; James D. Murphy, 1181 Broadway, $205,960; W. & T. Lamb, 99 Nassau St., $208,318; L. J. Walsh, 503 5th Ave., $211,000; J. T. Woodruff, Long Island City, $213,785; John Thatcher, $212,900; T. Cockerill, & Son, 220 4th Ave., $214,900; K. A. Murphy, 96 Linwood St., Brooklyn, $221,000. For erecting Public School 102, Brooklyn: Louis Wechsler, $138,900; T. J. Kelly & Son, $141,551; Kenny & Henningham, $142,476; John Thatcher, $144,362; K. A. Murphy, $150,500; J. T. Woodruff, $151,983; W. & T. Lamb, $152,073; Luke A. Burke, 409 W. 59th St., $155,000; T. Cockerill & Son, $220 4th Ave., $168,900. For heating and ventilating plant in Public School 120, Brooklyn: Philip Dorp & Co., $6,934; Blake & Williams, 362 W. Broadway, $7,175; Williams & Gerstle, $7,194; N. Y. Steam Fitting Co., 137 Elm St., $8,000; E. Rutzler, 178 Centre St., $8,468.

BUFFALO, N. Y.—Bids are asked until Feb. 10 for constructing store houses, sheds, etc., at the Buffalo Light House Depot, as stated in our advertising columns. Maj. T. W. Symons, U. S. Engrs.

NEW YORK, N. Y.—Bids are asked by the Building Committee, Board of Education, 146 Grand St., Manhattan, until Jan. 15, for erecting public school No. 14 in Queens and school No. 12 in Richmond.——Andrew Carnegie has given $25,000 to the General Society of Mechanics & Tradesmen for its new building, 18 to 25 West 44th St. R. T. Davies, Secy.

NEW YORK, N. Y.—Plans have been filed by the city of New York for a 2-story brick engine house at 1524 St. and Prospect Ave., to cost about $20,000; for a 3-story brick hook and ladder house at 113 E. 33d St., to cost about $60,000; for a 3-story brick engine house and hook and ladder house at 217 and 219 W. 77th St., to cost about $120,000. Horgan & Slattery, Archs., 1 Madison Ave.; by Arthur Gorsch, for a 7-story brick flat at St. Nicholas Ave. and 151st St., to cost about $100,000. Frank Wennemer, Arch., 143 W. 25th St.

SYRACUSE, N. Y.—Plans have been prepared by H. B. Jeffrey, Sedgwick-Kennedy & Andrews Bldg., for a convention hall on W. Genesee St., to cost about $100,000, for the Central City Produce Exchange.

WHITESTONE (L. I.), N. Y.—The board has authorized the issue of $126,000 in bonds for the erection of a school house. R. L. Conant, Principal.

ASBURY PARK, N. J.—It is stated that C. S. Wilson has prepared plans for a 5-story brick hotel building, to cost about $40,000.

FLEMINGTON, N. J.—Plans have been prepared by F. S. Allen, Joliet, Ill., for a school house to cost about $35,000.

EASTON, PA.—C. P. Bolton & Co., Witherspoon Bldg., is reported to be preparing plans for the college building for Lafayette College.

HARRISBURG, PA.—The contract for steel cells, etc., in the jail in Dauphin county has been let to Van Dorn Iron Works Co., East Madison Ave., Cleveland, O., at about $16,000.

JOHNSTOWN, PA.—Geo. Wild, Opera House, has prepared plans for a municipal building, to cost about $50,000.

McKEESPORT, PA.—The question of erecting a city building, to cost about $75,000, is being discussed.

LANCASTER, PA.—Plans are being prepared by C. E. Urban for a Y. M. C. A. building, to cost about $40,000.

PHILADELPHIA, PA.—It is stated that G. C. Boldt, of the Waldorf-Astoria, New York, and L. McCormack, of the Bellevue, propose to erect a hotel building to cost about $2,000,000.——Wm. A. Dougherty is said to be asking for bids for erecting a church building for St. Paul's P. E. Church, at 47th St. and Kingsessing Ave. Furness, Evans & Co., Archs., Provident Bldg.

PHOENIXVILLE, PA.—Reports state that J. N. Doran will receive bids for erecting a stone hall building.

PITTSBURG, PA.—Chas. B. McLean, Pres. Lincoln National Bank, will erect an apartment house on Negley Ave., to cost about $175,000.

NEWPORT NEWS, VA.—The legislature has authorized the issue of $55,000 in bonds for new school buildings.

NORFOLK, VA.—Bids are asked by the supervising architect, Washington, until Feb. 10, for electric wiring in the U. S. Building.——It is stated that M. M. Bennett will tear down the building occupied by the Western Union Telegraph Co. and erect a new office building.

RICHMOND, VA.—The Merchants' & Planters' tobacco warehouse was destroyed by fire Jan. 5; reported loss, with contents, about $350,000.

AUGUSTA, GA.—The Georgia R. R. and the Seaboard Air Line will erect a new union depot at Jackson and Campbell Sts. T. K. Scott, Gen. Mgr. Ga. R. R.

JACKSON, MISS.—The contract for building the annex to the Federal Building has been let to the Congress Construction Co., 1517 Masonic Temple, Chicago, at $21,355.

KNOXVILLE, TENN.—F. P. Milburn, Winston, N. C., is reported to be preparing plans for a new 2-story depot at Gay St. and Depot Ave. for the Southern Ry. Co.

KNOXVILLE, TENN.—Gen. G. W. Pickle is having plans drawn for a 4-story business block on Vine St.

LOUISVILLE, KY.—Kenneth McDonald, 349 W. Main St., has filed plans for a 4-story addition to the court house, to cost about $70,000.

GLENVILLE, O.—The question of erecting a school house, to cost about $30,000, is being discussed, according to reports.

FINDLAY, O.—The people have voted in favor of issuing $250,000 in bonds for a new high school building.

WABASH, IND.—We are informed that M. A. Dickover has been awarded the contract for reconstructing the city hall. R. P. Woods, Cy. Engr.

DETROIT, MICH.—Mrs. Daniel Scotten will erect a residence on Jefferson St., to cost about $50,000.

TRENTON, MICH.—It is stated that this town will erect a new school building.

DIXON, ILL.—Bids are asked, according to reports, until Jan. 20 for erecting a court house to cost about $100,000. E. W. Smith, Chn. Bldg. Com.

MILWAUKEE, WIS.—Henry Messmer & Sons, 437 E. Water St., are preparing plans for a building at Chicago and Milwaukee Sts., to cost about $40,000, for Jacob Wellauer.

MILWAUKEE, WIS.—Bids are asked until Feb. 8 for interior decorating in the U. S. building. J. K. Taylor, Supv. Arch., Washington, D. C.

WHITEHALL, WIS.—Bids are asked until Jan. 25 for erecting a laundry and a cold storage building for the insane asylum. O. E. Gibbs, Chn. Com.

DES MOINES, IA.—It is reported that the following buildings are projected: Rock Island Depot, $115,000; Howell-Pratt-Warfield warehouse, $70,000; Harris-Emery building, $50,000; Chamberlain Medicine Company building, $75,000, plans ready March 1; The Getchell & Martin Lumber Co. will erect a factory, 132x150 ft., with detached wareroom, according to reports; Des Moines Brick & Mfg. Co., $50,000; Weitz, 716-718 W. Walnut, $50,000; Storer apartment house, $50,000; Cochran Brewery, $200,000; City Library, $125,000; flats for Robert Fullerton, $50,000, and Drake University buildings, $60,000.

DULUTH, MINN.—The Pioneer Steel Elevator Co. will erect a grain elevator, with a capacity of 500,000 bus. G. F. Piper and W. S. Archer are interested.

EMPORIA, KAN.—Andrew Carnegie has given the College of Emporia $50,000 for a library building. B. H. Gragg, Financial Agt.

TOPEKA, KAN.—Bids are asked until Feb. 26 for constructing the U. S. building. J. K. Taylor, Supr. Arch., Washington.

WARSAW, N. DAK.—Bids are asked until Jan. 31 for erecting a church building; check, $1,000. Rev. F. Gawlowier, Pastor.

CHEYENNE, WYO.—Andrew Carnegie has donated $50,000 for erecting a library building.

STEVENSVILLE, MONT.—The question of issuing $20,000 in bonds for a court house will be voted on in February.

ALBUQUERQUE, N. MEX.—Bids are asked until Jan. 15 for furnishing about 17,000 ft. of lumber, doors, nails, etc. A. H. Viets, Supt., Santa Fe.

BERKELEY, CAL.—The question of issuing $75,000 in bonds for a new high school is being discussed, according to reports.

LOS ANGELES, CAL.—Bids are asked until Jan. 15 for constructing a fire engine house. C. H. Hance, Cy. Clk.

SAN FRANCISCO, CAL.—The people have voted in favor of issuing $1,000,000 for a new hospital and new schools.

STOCKTON, CAL.—Chas. Beasley & Son, 24 East Main St., have prepared plans for a hotel at Sutter and Market Sts., to cost about $90,000.

VANCOUVER, B. C.—The British Columbia Electric Ry. Co. will, it is stated, erect a hotel on Hastings St., to cost about $100,000.

MANAOS, BRAZIL.—A. Jannuzzi, Ormao e Cia., of No. 83 Rua da Alfondega, Rio de Janeiro, have been awarded the contract by the state of Amazonas to build a hospital to cost about $1,200,000.

LONDON, ENG.—The contract for the retaining walls and foundations for the new public offices, Parliament St., Westminster, have been let to J. Mowlem & Co., 19 Grosvenor Road, S. W., at about $395,000, although R. Hockley & Son submitted a bid at about $388,000.

WALSALL, ENG.—Plans are wanted until March 1 for the proposed new municipal buildings; five prizes of $500 each will be awarded; population, 80,000. J. R. Cooper, Town Clk.

WATER-WORKS.

BANGOR, ME.—The Millinocket Water Co. has been incorporated with a capital of $60,000, by G. Schenck, Weston; J. H. Longley, Millinocket; E. H. Gowing, Civil Engr., Reading, Mass.

GLOUCESTER, MASS.—G. E. Merchant, Mayor, writes us that it is proposed to secure an auxiliary water supply by taking Haskell Pond, two miles from present supply, and going to Clebores Lake, six miles away. The Haskell Lake scheme will, if adopted, be a gravity system, while the latter will require a pumping station and six miles of pipe.

PITTSFIELD, MASS.—It is proposed to erect a new dam at Ashley Lake to cost about $35,000.

SPRINGFIELD, MASS.—A. P. Hathaway, Clk. Bd., writes us that preliminary examination for a possible new water supply has been made, but no report has been made. No decision can be reached for some time, and no work will be done this year. W. P. Hayes, Mayor.

NEW HAVEN, CONN.—The New Haven Water Co. will hold its annual meeting next month, and it is stated that the question of making improvements, including a tunnel, to the works, will be considered; estimated cost about $1,500,000. Eli Whitney, Pres.——Alderman H. G. Shepard has introduced a resolution calling for the appointment of a committee to investigate the question of municipal works to cost about $300,000.——I. A. Kelsey has purchased the controlling interest in the West Haven Water Co.

BROOKLYN, N. Y.—The board of public improvements has adopted a resolution authorizing the laying of 103,000 ft. of 20 to 48-in. water mains in the southern and southwestern sections of Brooklyn, at an expense of $1,056,000. The communities affected are Vanderveer Park, Coney Island and Bergen Beach.

GLOVERSVILLE, N. Y.—Bids are asked until Jan. 27 for furnishing material and for constructing a reservoir and cast-iron conduit 14,000 ft. long for Sacandaga Park, as stated in our advertising columns. J. L. Hees, Pres. & Gen. Mgr. Fonda, Johnstown & Gloversville R. R. Co.

MORAVIA, N. Y.—The franchise of the Moravia Water Works Co. will expire April 1, and the city is considering the question of municipal works to cost $20,000. The company wants $50,000 for its works.

PATERSON, N. J.—A franchise has been granted to the People's Water Co., recently incorporated with a capital stock of $500,000. Wm. B. Gourly, Pres.

RAHWAY, N. J.—The Russell Water Co. has been incorporated with a capital of $25,000 by W. B. Shelby, Russell, Mass.; R. Surbridge, Seabright, N. J.

BRADFORD, PA.—It is proposed to enlarge the new reservoir.

PHILADELPHIA, PA.—It is likely that bids will be asked in March for improving the West Philadelphia works at a cost of about $3,700,000. Local papers state that it will be nearly a year before work can be begun on the rest of the water-works improvements. Councilman Seeds, Chn. Com.

PITTSBURG, PA.—Bids are asked until Jan. 25 for the purchase of $7,000,000 of 3% and 3½% bonds, to be used as follows: $2,500,000 for extending and improving water supply and distribution, and providing meters; $200,000 for main sewers; $282,000 for new public buildings work; $600,000 for hospital buildings; $700,000 for additional water mains; $520,000 for bridges, and the remainder for park and street purposes. J. E. Lewis, Cy. Controller.

LAUREL, MD.—Mayor Edward Phelps, in a special message to the council, urges the construction of works, better fire protection and the extension of the electric line from Washington, which now ends at Berwyn, to this city. The Laurel Water Co. was incorporated in 1898 by J. M. Cone, W. H. Minch and J. F. Williams, Baltimore, Md.

LUKAY, VA.—This place has asked the legislature for authority to issue $30,000 in bonds for works.

PETERSBURG, VA.—The council is considering a proposition, submitted by J. F. Heyward, Baltimore, Md., to sell the works to a company which he represents, who proposes to improve the plant at a cost of about $100,000, and then sell it back to the city.

WOODSTOCK, VA.—The legislature has been asked to authorize this place to issue bonds for works.

ELKINS, W. VA.—Bids are asked until Jan. 22 for the purchase of $25,000 of 5% 30-year bonds for the works, the contract for building which has been let to E. F. Kitson, Reading, Pa., as noted in our last issue. J. A. Bent, Mayor.

GREENSBORO, N. C.—J. M. Bandy, Cy Engr., writes us that the sale of the works will be made in a few days, after which it is proposed to put in a filter plant, etc. It is also proposed to build new works at a cost of $150,000, bids for which will probably soon be wanted. Population 20,000.

AUGUSTA, GA.—The Mayor has recommended the construction of a new reservoir and a better fire department service.

IRVINE, KY.—Bids are asked until Jan. 22 for the purchase of a franchise for works, a street railway and an electric plant, according to reports; population, 500. S. L. Teeds, Chn. Com.

DAYTON, O.—J. M. Ratcliff, Secy., writes us that bids received Dec. 1 for furnishing a 1,000,000-gallon pumping engine for the state hospital have been rejected.

MARTIN'S FERRY, O.—T. E. Pugh, Secy., writes us that none of the bids received Dec. 21 for furnishing a 4,000,000-gallon vertical compound condensing high duty pumping engine, etc., was satisfactory. The council has given the trustees authority to contract for a pumping engine without further advertising.

RICHWOOD, O.—The Varuna Water Co. has been organized by J. L. Horn, Pres.; W. H. Wagers, Secy.

LAFAYETTE, IND.—It has been decided to build a pumping plant in the 6th ward at a cost of $25,000.

DETROIT, MICH.—Bids are asked until Jan. 25 for the purchase of 200,000 of 3½% 30-year water bonds. H. S. Starkey, Secy. Water Comrs.——D. D. Thorp, Pres., writes us that the estimates for the coming year have not yet been made.

SAULT STE. MARIE, MICH.—It is proposed to rebuild a portion of the works.

ALTON, ILL.—Appraisers have been appointed to value the works of the Boston Water & Light Co., with a view to the city purchasing the same. A. W. Young, Mayor.

AURORA, ILL.—The council has voted to put in water meters. Councilman Lincoln, Chn. Bd. Pub. Wks.

CASEY, ILL.—Geo. Garner, Cy. Clk., writes us that the contract for works and an electric plant has been let to the Commercial Electric Co., 1200 Fisher Bldg. (281 Dearborn St.), Chicago, at $36,500.

PEORIA, ILL.—The question of purchasing the works is being considered.

MARINETTE, WIS.—It is stated that the Marinette Water Co. has agreed to build a filter at a cost of $25,000. At the end of seven years the city will have the privilege of purchasing the works.

TOPEKA, KAN.—H. V. Hinckley, Topeka, has submitted a report on the works of the Topeka Water Co., at $332,000.

WELLINGTON, KAN.—This city voted, Dec. 30, to issue $50,000 in bonds for work.

MONTICELLO, ARK.—Bids are asked until Feb. 10 for constructing works and an electric plant, as stated in our advertising columns. R. L. Hardy, Secy.

SPRINGDALE, ARK.—The question of building works and an electric plant is reported as being considered.

DALLAS, TEX.—Max Hahn, Chn. Com., writes us that nothing definite has been done regarding extending the works.

GREENVILLE, TEX.—W. L. Beckham, Pres., writes us that until the suit against the old company to forfeit its franchise is terminated nothing can be done towards putting in new works.

LIVINGSTON, MONT.—An election will be held Jan. 25 to vote on the question of issuing $100,000 in bonds to purchase the works of the Livingston Water Works & Electric Light Co.

MUSKOGEE, IND. TER.—The Muskogee Nation has asked for legislation looking to the immediate construction of works for Waggoner, Muskogee and other Muskogee Nation towns.

DENVER, COLO.—The aldermen have passed an ordinance providing for the issuance of $4,700,000 in bonds for constructing city works or for the purchase of the Denver Union Water Co.'s works. The company wants $7,000,000 for its works.

LEADVILLE, COLO.—Jesse F. McDonald, Mayor, writes us that preliminary surveys and estimates are being made for the proposed gravity works, and that contracts will be let in about 60 days. The water will be brought by flume, for about ten miles, to a distributing reservoir, and mains, valves, hydrants, service pipes, etc., sufficient to supply 15,000 population will be wanted. Estimated cost $150,000. No filters, etc., are needed. Thos. W. Jaycox, Des. Engr.

MONROVIA, CAL.—An election will soon be held to vote on the question of issuing $20,000 in bonds to complete the works. Address Councilmen Jimmerson and Spence. C. E. Rogers, Pres. Trustees; W. A. Walker, Cy. Clk.

PHOENIX, ARIZ.—E. J. Bennett writes us that the question of appropriating $370,000 in bonds for works and a sewerage system will be held Feb. 27.

EUREKA, UTAH.—It is likely that Watson M. Nesbit, Jas. Clarke and Edward S. Pike will organize a company to furnish water to this place.

SEWERAGE.

WOODSTOCK, VT.—We are informed that about $10,000 has been voted for constructing one section of the system this year; plans have been prepared. R. A. Cains, Cy. Engr., of Waterbury, Comr.; Geo. Aitken, Chn. Trustees; Fredk. Chapman, Clk.

BEVERLY, MASS.—Mayor B. D. Webber writes us that nothing has yet been decided upon regarding constructing a trunk sewer in River St.

CHELSEA, MASS.—James Gould, Mayor, writes us that work is only suggested; nothing will be done until later in the year.

HOLYOKE, MASS.—J. L. Tighe, Cy. Engr., writes us that no appropriations for proposed work have been made as yet.

MALDEN, MASS.—G. A. Wetherbee, Cy. Engr., writes us that the city is not contemplating any more sewers at present, as was recently reported.

WORCESTER, MASS.—H. P. Eddy, Supt. Sewers, has asked for $230,000 for sewer work for 1900.

WEST HAVEN, CONN.—Dr. Barnett, Chn., writes us that a committee has been appointed to investigate the proposition of establishing a system. No date has been set for its report.

ARCADIA, N. Y.—The question of constructing a system next summer is being discussed.

BATAVIA, N. Y.—The committee has recommended the employment of W. L. Church, of the City Wastes Disposal Co., 874 Broadway, New York, to prepare plans for a bacterial system.

BATAVIA, N. Y.—The board has authorized the sewer commissioners to secure plans for a system.

BROOKLYN, N. Y.—The board of public improvements has authorized the construction of sewers in 18 streets, to cost about $110,000.——Deputy Commissioner Brennan has prepared plans for a system to cost about $2,500,000, only $500,000 has been appropriated.

BUFFALO, N. Y.—Bids are asked until Jan. 17 for constructing a 15 and 12-in. pipe sewer in Oberlin St. E. G. Parsons, Secy., Bd. Pub. Wks.

ERIE, PA.—The councils have passed a resolution to submit to the electors at the election Feb. 20 a proposition to bond the city for $300,000 to dispose of the unsanitary condition of Mill Creek. This creek flows through the city from south to north for two miles, and is the outlet for 32 miles of lateral and main sewers. The intention appears to be to arch the creek with masonry or lay an iron pipe in it to take the sewage. The select council has passed a resolution, which has not yet been concurred in by the common branch, to allow B. E. Briggs, Cy. Engr., to employ an expert sanitary engineer to prepare a plan to dispose of the unsanitary condition of the creek. He is limited to an expenditure of $250 for this purpose.

NEW YORK, N. Y.—Bids are asked until Jan. 17 for constructing a sewer in Little St. and furnishing 6,000 barrels of Maine rock lime for sewage disposal (postponed from Jan. 10), and for constructing a sewer in E. 172d St., Bronx, and one in United States St., and furnishing 2,000 gross tons of Lehigh hard coal in Brooklyn. Jas. Kan, Sewer Comr., 21 Park Row.

SYRACUSE, N. Y.—R. R. Stuart, Cy. Engr., in his report, recommends that Onondaga Creek and Harbor Creek be improved and intercepting sewers constructed.

ELIZABETH, N. J.—A resolution of intention to construct a sewer in Montgomery Ave. has been passed. The following bids have been received for constructing a sewer in Niles St.: Philip Donahue, $1,894; Matthew Wade, $2,015; Patrick McKeon, $2,046; Patrick Faughnan, $2,355. N. K. Thompson, St. Comr.

TRENTON, N. J.—The State Sewerage Commission has recommended that some method of disposal be used to prevent the pollution of the Passaic River.

BEAVER FALLS, PA.—H. T. Barker, Cy. Engr., writes us that the city will vote in February on the question of issuing $60,000 in bonds for completing the system.

PHILADELPHIA, PA.—The city has $900,000 for sewer improvements, and work will be the relief of the Cohocksink drain.

GREENSBORO, N. C.—J. M. Bandy, Cy. Engr., writes us that the question of street and sewer improvements is being discussed.

NEWBERRY, S. C.—The question of constructing a system is being discussed.

VICKSBURG, MISS.—Alderman Capt. J. J. Hays is in favor of constructing a system, provided a water-works plant is included.

CINCINNATI, O.—The council has been asked to construct a trunk sewer in North Fairmont.

COLUMBUS, O.—Julian Griggs, Ch. Engr. Dept. Pub. Improvements, writes us that no definite steps have been taken, nor money appropriated, for sewers, though considerable work will probably be done this year.

MARTINSVILLE, IND.—Bids are asked until Feb. 9 for furnishing the material and constructing about 4,100 ft. of 24-in., 5,000 ft. of 18-in., 4,200 ft. of 15-in., 6,700 ft. of 12-in., 4,500 ft. of 10-in., 45,000 ft. of 8-in. pipe sewer, as stated in our advertising columns. S. M. Guthridge, Mayor; F. A. Gageby, Cy. Engr.

CHICAGO, ILL.—The board has passed a resolution authorizing the laying of an intercepting sewer in five streets, work to be done by day labor.

DOWNER'S GROVE, ILL.—P. C. Gallup, Village Pres., writes us that the town will probably construct a system this year.

KANSAS CITY, MO.—The U. S. government has found that Kaw River cannot take care of the city's sewage. It is recommended to build sewers to the Missouri River.

EL PASO, TEX.—An election was called for Jan. 9 to vote on the question of issuing $20,000 in bonds for extending the system.

EVERETT, WASH.—The people have voted to issue $60,000 in bonds for a system.

FRESNO, CAL.—It is stated that an election will soon be held to vote on the issue of bonds for a system.

SAN FRANCISCO, CAL.—The city voted Dec. 29 to issue $4,600,000 in bonds for constructing a system.

MORECAMBE, ENG.—Schofield Bros., Leeds, Eng., are reported to have been awarded the contract at $222,500 for building the first section of the system. The second section will cost about $75,000. John Bond, Town Surv.

GARBAGE DISPOSAL—STREET CLEANING

BOSTON, MASS.—It is stated that the city is having plans prepared for a wooden plant sheathed with iron in Brighton.

BRIDGEPORT, CONN.—Director of Public Works Williams has asked for an appropriation of $106,500 for street cleaning, etc.

GENEVA, N. Y.—It is stated that Dr. J. B. Hubbs is interested in the proposed plant. P. R. Cole, Cy. Clk.

MT. VERNON, N. Y.—Bids are asked until Jan. 23 for removing ashes and garbage for two years from Feb. 1. E. W. Fiske, Mayor; W. N. Hoyt, Cy. Clk.

NEW ROCHELLE, N. Y.—It is stated that a crematory will be built on the Paine farm on North St.

WILMINGTON, DEL.—Bids are asked, according to reports, until 7.30 p. m. Jan. 11, for removing garbage for three years from Feb. 1. W. P. Morrison, Clk.

MILFORD, DEL.—The question of purchasing a street sweeper is being discussed.

PARKERSBURG, W. VA.—The board has received the following lowest bids for removing garbage for 1900. R. A. Little, 1st ward, $371; L. N. Collins, 2d, $375,000; 3d, $480; 5th, $310; G. L. Ruddell, 4th, $437.

MINNEAPOLIS, MINN.—Health Commissioner Norton is in favor of building three crematories to cost $10,000 each.

ST. PAUL, MINN.—J. Ohage, Health Comr., writes us that the garbage question is pending before the council; no permanent arrangements have been made.

BROOKLYN, N. Y.—The department of street cleaning received the following bids Jan. 9 for collecting ashes, garbage and refuse in Queens and Richmond to Dec. 31: Queens—D. C. Bourke, Jr., all wards, $65,876; Lawrence Collins, 3d ward, $6,350; Card & Montevede, 2d, $8,900; Thomas F. Tuohy & Co., all wards, $49,200; 3d, $6,600; Magnus Larsen, 1st ward, $12,436; 3d, $7,357; Thomas Foley, 4th, $5,700; Lewis T. Walter, Jr., 5th, $695 a month (bid irregular); M. Hoffeller, 2d, $6,590; John F. Hicks, 1st, $7,300; Peale Bros., 3d, $10,000; Lally & Reade, 3d, $550 a month (irregular); Pearsall, Potter & Decker, 5th, 11,556. Richmond—Donovan Bros., 1st, $11,400; 2d, $5,000; 3d, $3,400; 4th, $3,500; 5th, $3,200; Conley Bros., 2d, $2,500; 3d, $2,300; 4th, $1,600; 5th, $1,600; Decker & Potter, 1st, 15,525; 2d, $7,240; 3d, $4,050; 4th, $3,105; 5th, $2,470; H. J. & J. F. Donovan, 1st, $6,500.

STREETS AND ROADS.

LYNN, MASS.—Wm. Shepherd, Mayor, writes us that this city may undertake to do a considerable amount of paving this year. Mayor Shepherd would like to secure prices of the different kinds of pavement, etc.

PITTSFIELD, MASS.—Mayor Russell has recommended the paving of the main street this year.

SOMERVILLE, MASS.—Mayor Proctor in his message advises a separate appropriation for highway construction.

BRIDGEPORT, CONN.—The council has been asked to appropriate $214,000 for street improvements for this year.

MERIDEN, CONN.—The board has appropriated $30,000 for the Street Department for this year, $10,000 of which is for paving.

SYRACUSE, N. Y.—City Engineer Stuart has advised the passing of a law authorizing three miles of pavement a year.

WATERTOWN, N. Y.—W. F. Posten writes us that no steps have been taken by the board of public works toward street improvements or sewers. The mayor has recommended the asphalting of several streets.

WHITE PLAINS, N. Y.—Stephen Van Tassel, 2 S. 8th Ave., Mt. Vernon, writes us that the state engineers have completed surveys and are preparing plans for road improvements in Westchester county. No money has been appropriated.

HOBOKEN, N. J.—Lawrence Fagan, Mayor, writes us that nothing has been done regarding the repaving of Bloomfield and Washington Sts. further than his recommendation.

PATERSON, N. J.—The board has authorized the appropriation of $100,000 for street improvements for next season.

OIL CITY, PA.—The council has authorized the paving of Seneca St. with brick.

WAYNESBORO, PA.—The road from the almshouse to the Baltimore Pike will be macadamized. Jacob Potter, Steward.

WILLIAMSPORT, PA.—The mayor writes us that the contract for paving West Fourth St. has not been provided for. Contracts will probably be let in April for considerable paving.

ANNAPOLIS, MD.—E. A. Leidewitz, Mayor, writes us that no particular improvements have been decided on. The bond issue must first be voted upon.

BALTIMORE, MD.—The board has recommended the paving of several strets; no appropriations have been made.

DANVILLE, PA.—The council has authorized the issue of $100,000 in bonds for street improvements.

PETERSBURG, VA.—G. B. Gill, Cy. Audr., writes us that it is proposed to pave 7,544 yds. with asphalt, to cost $15,088. T. R. Dunn, Cy. Engr.

WILMINGTON, N. C.—The question of paving Princess St. with brick is being discussed.

ATLANTA, GA.—The question of paving Peters St. is being discussed.——Mayor Woodward has recommended the laying of asphalt sidewalks in Grant Park.——Decatur St. will probably be improved this year, for which $5,000 has been appropriated.

JACKSON, MISS.—The board has been asked to authorize the paving of Capitol St. with brick.

NEW ORLEANS, LA.—The board has passed a resolution to build sidewalks on Moss St.——The question of paving Lafayette St. with asphalt is being discussed.

CINCINNATI, O.—The city engineer has prepared plans for improving Taylor Ave. and Grandin Road, to cost about $20,000.

CLEVELAND, O.—Bids are asked until Jan. 23 for paving five streets with asphalt and five with Medina block, and until Jan. 30 for paving 12 streets with brick. J. Vanderelde, Deputy Dir. Pub. Wks.

COLUMBUS, O.—Julian Griggs, Ch. Engr. Dept. Pub. Imp., writes us that no important work has been ordered.

GLENVILLE, O.—J. F. Brown, Village Engr., Cleveland, writes us that estimates are being prepared for paving St. Clair St. with asphalt.

TOLEDO, O.—W. F. Brown, Cy. Engr., writes us that bids will be received on Jan. 29 for paving four streets with block or asphalt, about 25,465 sq. yds., to cost about $55,000.

ANN ARBOR, MICH.—The council has decided to pave Huron St.

GRAND RAPIDS, MICH.—G. M. Ames, Cy. Engr., writes us that prices for road rollers are wanted.

QUINCY, ILL.—F. A. Grover, Cy. Engr., writes us that it is proposed to build 10,000 ft. of 72 to 30-in. brick sewer and also to pave 25 blocks with brick.

MILWAUKEE, WIS.—It is stated that the board will recommend the paving of portions of 12 streets.

DUBUQUE, IA.—C. H. Berg, Mayor, writes us that the council will make the appropriations for paving in March.

MARSHALLTOWN, IA.—The city clerk writes us that contracts for about 500,000 sq. ft. of cement walks were to be let Jan. 8.

CROOKSTON, MINN.—A. D. Stephens, Mayor, writes us that the city will issue $50,000 in bonds for macadam paving. O. L. Hamery, Cy. Engr.

OMAHA, NEB.—The question of paving is being discussed.——The council has passed ordinances for paving in five streets.

JOPLIN, MO.—The mayor writes us that it is proposed to pave 10 blocks with brick. S. J. McKee, Cy. Engr.

GALVESTON, TEX.—The board has recommended the paving of 20th St. with block.

TORONTO, ONT.—The board of control has let the following asphalt paving contracts: Bernard and Brunswick Aves., to the Construction & Paving Co., $13,687; Palmerston Ave., Warren-Scharf Asphalt Paving Co., 157 Bay St., $11,045.

MANUFACTURING PLANTS.

RUMFORD FALLS, ME.—C. W. Gardner, Gen. Mgr. the Oxford Paper Co., Newton Center, Mass., writes us that the contract for the buildings of the company's mill, which will be about 400 x 700 ft., to cost $400,000, will be let in February, and the equipment will be contracted for during March. Tower & Wallace, Archs., Townsend Bldg., New York and Holyoke, Mass.; Waldo Pettengill, Pres.

FALL RIVER, MASS.—It is reported that the American Thread Co. has abandoned the project to erect a $2,000,000 thread mill, but will enlarge the present Kerr Mill by adding 35,000 spindles.

NORTH ADAMS, MASS.—H. D. Rockwell, Asst. Treas., the James Hunter Machine Co., North Adams, writes us that plans for the company's proposed foundry have not been definitely decided upon, but that investigations are being made so as to be able to begin the construction this summer.

PITTSFIELD, MASS.—The Stanley Electric Mfg. Co. is reported to have increased its capital stock from $600,000 to $2,000,000, for the purpose of building several additions to its plant.

WILLIMANSETT, MASS.—It is reported that B. F. Perkin & Son, Holyoke, steam engine builders, propose to build a new mill at this place.

STAMFORD, CONN.—Local papers state that the Yale & Towne Mfg. Co. will remove the plant of the Bramford Lock Works, which it owns and operates, to this city.

NEW YORK, N. Y.—Fire destroyed a six-story brick factory building at Nos. 338, 340 and 342 East 59th St., on Jan. 9; reported loss about $200,000.

NEW YORK, N. Y.—L. G. Smith, of Dooley, Smith & Co., 95 Liberty St., is reported as wanting at once prices for small ice-making plants for use in Porto Rico. Mr. Smith sails for Porto Rico on Saturday.

ELIZABETH, N. J.—The Electric Launch Co., formerly of Morris Heights, N. Y., is reported to have purchased a tract of land in Bergen Point, opposite Scheuler's Island, on which it will erect the necessary buildings, docks, piers and ways for a plant to build submarine boats, torpedo boats, torpedo-boat destroyers, and electric and steam launches.

ALTOONA, PA.—The Pennsylvania R. R. Co.'s Juniata blacksmith shop was destroyed by fire Jan. 5; reported loss, $100,000.

GREENSBURG, PA.—It is reported that a plant will be erected at Coudersport, including a 16-pot furnace for the manufacture of the Giesmer tile, of which W. F. Webb is the patentee. A company has been formed, capitalized at $100,000.

HOMESTEAD, PA.—Plans for a $1,000,000 extension to the Carnegie Steel Co. are reported to have been prepared.

ROCKLAND, DEL.—Reports state that the Jesup & Moore Paper Co. is having plans prepared for a new factory, to replace its present one at this place, to cost about $350,000.

NEWPORT NEWS, VA.—Reports state that Collis P. Huntington, Mills Bldg., New York, proposes to erect a steel plant on a site adjoining the ship yard, which has been purchased for $50,000. The plant will be used for the manufacture of armor plate, and will cost several millions.——The report that C. P. Huntington would build a cotton factory here is said to have been confirmed.

MORGANTOWN, W. VA.—Darthat Bros., Morgantown, write us that bids for the buildings and equipment for the Ice & Storage Co.'s ice plant will be asked for at once. The equipment for a five-ton plant, together with a dynamo and apparatus for lighting, will be wanted.

DURHAM, N. C.—The Golden Belt Mfg. Co. is reported to have reorganized and determined to build a new bag factory of 1,500 spindles and 500 bag looms. Contracts will soon be let. T. B. Fuller, Pres.

HICKORY, N. C.—E. T. Shuford is reported to have completed arrangements for the location of a mill to develop the Shuford shoals for the manufacture of cotton goods. Contracts will soon be let for the buildings and equipment, consisting of 7,500 spindles and 200 looms, etc. A company has been organized, capitalized at $135,000.

ROCKINGHAM, N. C.—Robert L. Steele, Pres. the Steele Mills, is quoted as stating that the plant will be doubled at a cost of about $100,000, for which it is said that contracts will soon be let. The contract for 11,200 spindles and 300 looms has been let. It is proposed to erect an extensive bleaching and dyeing plant.

CHESTER, S. C.—It is reported that plans for a weave mill for the Eureka Cotton Mills are being prepared. Contracts for constructing the buildings will soon be let.

GREENVILLE, S. C.—We are informed that the extension to the Mills Mfg. Co.'s plant at Greenville is one-fourth completed.

SENECA, S. C.—W. S. Hunter writes us that it is proposed to begin construction of the 10,000-spindle cotton mill within 60 days. L. W. Jorden, Pres.

CANTON, GA.—It is reported that contracts for the erection of buildings for the Canton Cotton Mills, recently organized with $150,000 capital stock, will be let in January. The equipment and machinery have been purchased. The plant will have 5,000 spindles and about 200 looms, and will cost about $105,000. R. T. Jones, Pres.; Wm. Galt, Canton; Samuel Tate, Tate.

TAMPA, FLA.—Contracts for the construction of the refrigerating warehouse of the Armour Co. were let Dec. 21, by Geo. Kennedy, Arch., as follows: Harry Levich, brick and cement work; Harry Howard, galvanized iron and tin work; Bemford & Co., plumbing.

LOUISVILLE, KY.—Local papers state that G. C., Samuel P. and C. N. Jones, proprietors of the vinegar factory on 15th St., will soon begin the erection of new plant, to cost about $40,000. The building will have four stories, and will be 400 x 200 ft. The factory's capacity will be 25,000 bbls. a year.

JACKSON, TENN.—The county commissioners on Jan. 2 voted in favor of donating a $6,000 site to eastern capitalists for the erection of a $400,000 cotton mill with not less than 20,000 spindles, according to reports.

KNOXVILLE, TENN.—Local papers state that L. C. Waters, Arch., has completed plans for an underground coal conveyor, to be constructed at the Brookside Cotton Mills. Bids will be asked at once.

KNOXVILLE, TENN.—The Virginia Coal, Coke & Iron Co. is said to be negotiating for the purchase of the mines near Middlesboro, Ky., owned by the Excelsior Mining Co., where it will build about 200 additional coke ovens.

CINCINNATI, O.—The Bullock Electric Mfg. Co., Cincinnati and 220 Broadway, New York, is about to make extensive improvement and alterations to its plant, according to reports. The main machine shop is to be extended 200 ft.

FINDLAY, O.—The Continental Beet Sugar Co. has decided to erect a $400,000 refinery in this city at once, according to reports.

MARIETTA, O.—Bids are wanted by the Ohio Valley Wagon Co., Marietta, until Jan. 15, for erecting a manufacturing building, according to reports. Estimated cost, $25,000. Machinery will also be wanted. E. C. S. Holmboe, Arch.

NORTH JUDSON, IND.—It is reported that the New England Sugar Beet Co. proposes to let contracts at once for a $500,000 plant at this place. Contracts for machinery have been let.

DEER PARK GLEN, ILL.—The Osborn Co., Osborn Bldg., Cleveland, O., are preparing plans and specifications for the additions to the Marquette Cement Co.'s plant at this place.

MARSHALLTOWN, IA.—We are informed that the contract for constructing the A. E. Shorthill Co.'s foundry has been let to C. Reimer, Marshalltown. J. H. Prescott, Arch., Marshalltown.

ST. CLOUD, MINN.—It is reported that Whitney & Gale, St. Cloud, propose to erect a new cold storage, to be two stories, 44 x 100 ft.; estimated cost, $8,000. Chas. R. Aldrich, Arch., 706 Lumber Exchange, Minneapolis, is preparing plans. Bids will soon be asked for the construction.

ROCKYFORD, COLO.—The American Beet Sugar Co. is reported to have contracted for the erection of a beet sugar plant at this place to cost $1,500,000.

BARROW-IN-FURNESS, ENG.—The British Chilled Iron & Steel Co., Ltd., has been formed with a capital of $375,000 to build a plant to manufacture chilled iron and steel under a patent of P. H. Griffin, Pres., N. Y. Car Wheel Works, German Insurance Bldg., Buffalo, N. Y. W. M. F. Schneider, Chn., 38 Stanhope Gardens, S. W., London.

PARIS, FRANCE.—Laurent & Co., No. 5 Rue Laborde, recently formed to manufacture bicycles and automobiles, will soon build and equip large shops.

DRESDEN, GERMANY.—Robt. Grimshaw, Racknitzstrasse 9, 1, Dresden-Altstadt, is reported as wanting to purchase machinery for a wire nail plant, and also for a machine for coiling and knotting spiral bed springs.

SANTANDER, SPAIN.—It is stated that the Sociedad del Hierro y del Acero, Neuva Montaness, has been formed, with a capital of $1,000,000, to establish a pig-iron manufacturing plant.

MILAN, ITALY.—Contracts for the equipment for the new locomotive works for the Societa-Italiana Ernesto Breda are being let, according to reports. This company, recently organized with a capital of $2,000,000, has purchased, and is extending, the plant of the Breda Iron Works. Eugeno Galazzi, Ch. Engr.

CZENSTOCHAN, RUSSIA.—It is stated that Alfred Motte et his, of Roubaix, France, owners of wool and worsted mills in Russia, have decided to erect cotton spinning, weaving and dyeing works at Czenstochan, to cost about $4,000,000.

GRIGORIEVK, RUSSIA.—The Societe des Fours a Coke de Chiro-Kaira (Donetz) has been formed in Brussels, Belgium, to build a coke making plant and, it is stated, will want materials in April; capital stock, $200,000.

CALCUTTA, INDIA.—Reports state that Maj. R. H. Mahon, R. A., Supt. Government Ordnance Factories, Cossipore, Calcutta, India, has recommended the construction of a steel making plant near Calcutta to produce about 300,000 tons.

ABERDEEN, N. S. W.—It is stated that the Australian Chilling & Freezing Co. proposes to build a new plant near Brisbane to cost about $200,000.

GAS PLANTS.

NEW HAVEN, CONN.—The New Haven Gas Co. has decided to increase its capital from $1,000,000 to $2,000,000, to improve its plant.

FINDLAY, O.—It is stated that a 10,000,000-cu. ft. gas well has been located four miles east of here.

SANTA CLARA, CAL.—The trustees have passed an ordinance authorizing the issue of $30,000 in bonds for erecting a plant. D. O. Druffel, Pres.

NEW COMPANIES.—Citizens' Gas Co. of Haddonfield, Haddonfield, N. J.; $25,000; B. H. Shivers, W. R. Rugby. The Westcott Natural Gas Co., Jersey City, N. J.; $500,000; Frank Westcott, T. B. Cleary.

MISCELLANEOUS CONTRACTS.

PARK.—Topeka, Kan.—P. L. Wise, Cy. Engr., is preparing plans for a Central Park at Clay and 15th Sts.

DRAINAGE.—Bolsa, Cal.—The property owners have voted in favor of building the Willows drainage ditch south of here.

DREDGING.—Cleveland, O.—It is stated that the city officials want Eastern firms to bid on the $25,000 five-year dredging contract.

MINING.—Mexico.—It is reported that the Valenciana Mining Co., Fresnillo (Zacatecas), intends to increase its mining machinery.

PARKWAY.—Newport, R. I.—W. H. Lawton, 24 Bellevue Ave. has prepared plans for completing the Esplanade to cost about $29,000.

PIER WORK.—St. Joseph, Mich.—The contract for extending a pier at St. Joseph has been let to the Lydon & Drews Co., Chicago, at $258,554. The bids are given under Contract Prices.

TELEPHONE.—Huntsville, Ala.—Reports state that the Independent Telephone Co. will soon start work on its lines and exchange building.

BRONZE DOORS.—Indianapolis, Ind.—Bids are asked until Jan. 30 for six double bronze doors, for the Soldiers' and Sailors' Monument. J. W. Morris, Secy.

TELEPHONE.—Milwaukee, Wis.—It is stated that the Wisconsin Telephone Co. will spend $2,000,000 on improvements this year. J. D. McLeod, Gen. Mgr.

METAL WORK.—Charleston, S. C.—Bids are asked until Feb. 7 for furnishing metal work for beacon at Bull Bay light station. Capt. J. C. Sanford, U. S. Engr.

BICYCLE TRACK.—Boston, Mass.—It is stated that the Boston Bicycle Park Co. will build a bicycle track at Allston. Clintock & Woodfall will probably prepare plans.

PARK IMPROVEMENTS.—San Francisco, Cal.—J. A. Russell, Cy. Clk. writes us that the people have voted in favor of issuing bonds for improving the park in the Panhandle.

REMOVING WRECKS, ETC.—Rio de Janeiro, Brazil.—A contract has been let by the Captain of the Port to A. Thum to raise the ships and lighters that have been sunk in the bay.

MONUMENT.—New York, N. Y.—Bids are asked until Jan. 26 for erecting the Soldiers and Sailors' Memorial Monument in Riverside Drive. J. A. Goulden, Comr., Arsenal, Central Park.

CANALS.—Siam.—Hamilton King, U. S. Minister, Bangkok, Siam, reports that the King has sent to Holland for engineers to prepare plans for canals to develop waste lands. The Siam Canals, Land & Irrigation Co., formed ten years ago, is extending its systems. Address the Minister of the Interior, Bangkok.

OMNIBUS SERVICE, ETC.—Buenos Ayres, Argentina.—Alfredo Meade, of Calle Florida No. 150, Buenos Aires, has received a concession for omnibus services of either horse or mechanical traction.

HARBOR WORK, ETC.—Newcastle-upon-Tyne, Eng.—The Tyne Improvement Commission, it is stated, will spend this year about $700,000 on improvements to the harbor. W. G. Laws, Cy. Engr.

CEMENT.—Duluth, Minn.—Bids are asked, according to reports, until Feb. 10 for furnishing 9,000 barrels of Portland cement for bridge superstructures for the Duluth ship canal. Maj. C. B. Sears, U. S. Engr.

PARK.—Nashville, Tenn.—The Stone River Battlefield & National Park Association has secured options on 3,772 acres of land in the Stone River battlefield, at about $40 an acre, and will probably build a national park.

HARBOR WORK.—Inverness, Scotland.—Bids are asked until Jan. 15 for concrete and masonry quay wall to be 720 ft. long, 1,800 ft. of tramways, 79,000 yds. dredging, etc., Jas. Fraser, Engr.; K. MacDonald, Town House.

DEFENSIVE WORKS.—Buenos Ayres, Argentina.—Messrs. Runcimon y Cia, of Avenida de Mayo No. 651, have received authority to erect defensive works at the entrance channel to Buenos Ayres, and will soon begin work.

SCHOOL SUPPLIES.—Havana, Cuba.—Bids are asked until Feb. 15 for furnishing about $500,000 worth of school furniture, including bookcases, chairs, desks, clocks, hand bells, maps, etc. Gen. A. K. Chaffee, U. S. A., Ch. of Staff to Gen. Wood, Gov. of Cuba, Havana.

CHANNEL.—Buenos Ayres, Argentina.—The bill for extending the North Channel to the Outer Roads of the port having passed the Senate, it is found that the dredging plant is insufficient, and that to enable Dr. Emelio Civit, Minister Pub. Works, to carry out the work, which requires 1,700,000 cu. yds. of dredging, it will be necessary to enlarge the plant.

STEAMSHIP REPAIRS.—Seattle, Wash.—The Pacific Coast Steamship Co. has awarded a contract to the Moran Bros. Co. of Seattle, for boilers and general overhauling to the steamships City of Puebla and Pomona, to cost about $200,000. The City of Puebla will have four new boilers 14x12 ft. put in besides general repairs, to cost $100,000. The Pomona will have two new boilers.

TELEGRAPH LINE.—Ecuador.—Archer Harman, 27 Pine St., New York, N. Y., who represents the Guayaquil & Quito R. R. (being built by the Ecuador Development Co., 33 Wall St., New York), has received a concession for a telegraph line from Duran to the end of the G. & Q. R. R. The line is to consist of two wires on the same post, one for the exclusive use of the government and the other for the company.

DIVERTING CREEK.—Oakland, Cal.—The following bids for diverting the waters of Sausal Creek have been received by Maj. W. H. Heuer: Atlantic, Gulf & Pacific Co., San Francisco, $75,000; Alfred W. Burrell, Oakland, $59,283; Fred Peterson, Oakland, $67,800; J. J. Dunn, Berkeley, $64,300; Clark & Henry, Stockton, $53,418; Dundon Bridge & Construction Co., San Francisco, $71,223; City Street Improvement Co., San Francisco, $59,000; Thomas Thomson, San Francisco, $60,470.

DREDGE, ETC.—Montreal, Que.—The Harbor Commissioners have decided to build another dredge, new floating derrick and four scows, plans for which are to be ready in a week and the contracts let, so as to have them completed by July 1. Contracts for quantities of stone coping, broken stone, cement and sand have been let to T. Lessard, A. & H. Lionais, St. Lawrence Portland Cement Co., the Montreal Sand & Gravel Co. It is hoped to do some of the work this year towards the creation of the new harbor. John Kennedy, Ch. Engr.; Robt. Mackay, Pres.

PUBLIC WORKS.—Brazil.—U. S. Consul K. K. Kenneday, Para, Brazil, reports that the government desires to grant concessions to build a port, docks, etc., at Manaos; estimated cost about $2,500,000. The concession would include warehouses, repair shops, shipyards, etc. It is also proposed to build a dry dock in Para, which would carry with it a carpenter shop and a naval foundry. The construction of steam sawmills on the upper Amazon is recommended. The street railway in Manaos, owned by Chas. R. Flint, 68 Broad St., New York, will be extended about 15 miles, according to reports. The Federal government is prepared to let concessions for any improvement that will help to develop the country, such as railways, telegraph lines, steamship lines, banks, etc. At present English capital seems the most eager to secure concessions.

HARBOR WORK, ETC.—Montevideo, Uruguay.—U. S. Minister Finch reports that the government will want bids in about two months for constructing the proposed fort at this city; estimated cost about $15,000,000. The port law regarding the contracts, payments, etc., has defects, but, it is stated, the President has authority to modify the provisions. Mr. Finch also states that besides the above mentioned work, the government will undertake various enterprises with the view of providing employment and anticipating better times; the erection of a new government building to cost about $800,000, and the building of a railway, particulars of which will soon be forwarded. Electric traction is proposed for Montevideo by an English company, which owns the best street-railway franchises there. This company has made a proposition to reduce its fares and to give the city $40,000 in cash for the privilege.

PIER WORK.—New York, N. Y.—The following bids were received by the Department of Docks and Ferries, Jan. 5, for two wooden piers at Wallabout Basin, Brooklyn: Bernard Rolf, 39 Cortlandt St., $56,833; Seaboard Contracting Co., $57,653; Barth S. Cronin, 573 Clinton St., Brooklyn, $60,500; H. L. Speerin, 11 Broadway, $62,055; Wm. H. Jenks, 130 Pearl St., $64,973; Wend & McDermott, $67,837. The lowest bidder for a platform at the foot of Railroad Ave., Harlem River, was John Gillies & Co., Ravenswood, Long Island City, $2,018. Paving with granite or S. I. Syrenite the filled-in land in rear of bulkhead-wall, east side of Wallabout Basin, Brooklyn: Asphalt Construction Co., 207 Broadway, $11,125; Bernard Rolf, 39 Cortlandt St., $11,178; Kelly & Byrnes, Brooklyn, $11,218; Wm. P. Baird, $12,280; James H. Holmes & Co., Brooklyn, $13,712; Eugene Lentilhon, 11 Broadway, $13,885; Newman & Co., 355 Adams St., Brooklyn, $11,890; Harris & McGuire, 485 Flatbush Ave., Brooklyn, $14,176.

CANAL AND RIVER WORK.—Colombia, South America.—The contract made in August by Gonzales & Co., of Barranquilla, with the government provides for the canalization and working of the mouth of the Magdalena River, and is for a term of 75 years. The contractors are to excavate a channel, minimum depth at low water not to be less than 26 ft. and a width of not less than 150 ft.; mark the channel with buoys; maintain the necessary tugboats; establish a lighthouse at the mouth of the river; establish a pilots' station; construct the wharfs or dikes as are required, and to establish at the same place the necessary warehouses, etc.; construct the buildings necessary for the service of the National Customs Guard; construct tramways between the warehouses and buildings of the company and the Custom House, warehouses and deposits of the government on the river, and to maintain a carriage service for passengers between the wharf or dike to Barranquilla. Work will, it is stated, begin soon.

PUBLIC IMPROVEMENTS.—Washington, D. C.—The following bills are before the Senate Committee on the District of Columbia: No. 106. To provide for a municipal building and court house; 108, a municipal hospital; 109, extending Le Droit Ave. and S St. N. W.; 118, extension of Wyoming Ave.; 119, extending of Columbia Road east of 13th St.; 190, extensions of the Capital Traction lines; 1027, new bathing pool; 1160, memorial bridge across the Potomac; 1173, extending the Falls Church & Potomac Ry. into the District; 1235, permit the Washington Telephone & Telegraph Co. to install a telephone and telegraph plant; 1762, extending 17th St. to Ingleside; 1916, extending 5th St. N. W. in Yakoma Park; 1926, eliminating grade crossings of the Penn. R. R. in Washington, including constructing a new terminal station and 16-track trainshed, replacing the long bridge and constructing by the U. S. of a highway bridge across the Potomac; 2002, extend Bacon St. to 15th; 2012, grade and regulate Cathedral Ave; 2013, extend the lines of the Metropolitan Ry. along 16th St.

TUNNELS.—New York, N. Y.—The following companies are awaiting permission of the board of aldermen to construct tunnels: L. I. & N. Y. Terminal R. R. Co., to build from Cortlandt St., Manhattan, under the East River to the Flatbush station of the L. I. R. R.; captial stock, $7,500,000; Wm. H. Baldwin, Pres. Long Island R. R. Co., 32 Nassau St. Manhattan & Jersey City Tunnel R. R. Co., to build from Chambers St., Manhattan, under the North River to Jersey City; $10,000,000; W. C. Whitney. Metropolis Tunnel R. R. Co., to build from Brooklyn to lower Broadway, Manhattan, and to Jersey City; $50,000; C. G. Macy, Engr., 261 Broadway. Manhattan & Jersey City Tunnel Ry. Co., to build from Liberty St., Broadway, Manhattan, to Jersey City; capital stock, $10,000; E. C. Moore, Engr., 130 Pearl St. Hudson River Tunnel Co., part of the tunnel has been constructed; estimated cost, $4,000,000; F. B. Jennings, 15 Broad St. New York & Brooklyn Ry. Co., F. B. Esler, 290 Broadway. Terminal R. R. & Tunnel Co. to build from a point near the Brooklyn Bridge under the city and the North River; incorporated Jan. 3, with a capital of $50,000, by Arthur C. Hume, Engineers' Club, and D. L. Hough, Civil Engr., 19 W. 31st St., New York, and Thomas & Post, Bankers.

CONTRACT PRICES.

EXTENDING PIER.—St. Joseph, Mich.—We are informed that Capt. Chester Harding, U. S. Engr., Grand Rapids, Mich., received the following bids Dec. 30 for extending the pier, as advertised in Engineering News:

Bids Received at Grand Rapids, Mich., Dec. 30, 1899, for Extending a Pier at St. Joseph, Mich.

Quantities.		The Lydon & Drews Co., Chicago.	Smith & Nelson, Muskegon, Mich.	Wm. H. Gillen, Milwaukee.	Christie, Lowe & Heyworth, Chicago.	Powell & Mitchell, Marquette, Mich.
Dredging for crib foundation	12,000 cu. yds	$0.25	$1.50	$0.35	$0.35	$0.40
Foundation piles	38,473 lin. ft.	.25	.60	.80	.59	.57
White oak guard piles	1,196 " "	.25	.60	.35	.34	.50
" timber	7,866 ft. B.M.	50.00	50.00	45.00	34.50	40.00
White pine timber	1,610,767 " "	31.20	28.00	30.00	36.50	34.00
Hemlock timber	3,787,142 " "	24.50	22.00	24.00	28.00	28.00
White pine plank	189,200 " "	27.60	25.00	22.00	25.80	30.00
Drift bolts	627,398 lbs.	.04	.04	.04	.03½	.04
Screw bolts	702,420 "	.04	.04	.05	.04	.04
Spikes	12,385 "	.04	.04	.05	.03½	.04
Stone filling and riprap	11,430 cords	6.00	7.50	8.00	8.30	9.00
Total		$258,554	$289,469	$299,795	$315,480	$325,395

WATER PIPE.—New York, N. Y.—The following bids for 1,495 tons straight pipe, and 150 tons branches were received by department water supply Jan. 4, 1900, (1) being for straight pipe, and (2) for branches: U. S. Cast-Iron Pipe & Foundry Co., Chicago, (1) $26.75 a ton, (2) $45.00 a ton; Warren Foundry & Machine Co., 160 Broadway, (1) $25.90, (2) $45.00; M. J. Drummond, 192 Broadway, (1) $28.00, (2) $50.00; Fox & Engel, 253 Broadway, (1) $29.40, (2) $45.00; Camden (N. J.,) Iron Works, $28.70.

BRIDGE SUPERSTRUCTURE.—Lockport, Ill.—Jos. F. Haas, Clk. Sanitary District, Chicago, writes us that the following bids were received Jan. 3, 1900, for furnishing and erecting a superstructure for the bridge over the bear trap dam at Lockport: (1) is lump sum for superstructure; (2) extra iron (medium or soft steel) per lb.; (3) extra lumber, price per M ft.:

	1.	2.	3.
Lafayette (Ind.) Bridge Co.	$5,075	$0.04¼	$27.00
J. G. Wagner Co., Milwaukee	5,951	.05	30.00
Massillon (O.) Bridge Co.	5,995	.05½	35.00
Joliet (Ill.) Bridge & Iron Co.	6,140	.04½	35.00
King Bridge Co., Cleveland	6,200	.06	35.00
Mt. Vernon (O.) Bridge Co.	6,224	.04½	40.00
Wisconsin Bridge & Iron Co.	6,268	.05	35.00
Toledo (O.) Bridge Co.	6,950	.06	39.00
C. L. Strobel, Chicago, Ill.	7,422	.05¾	37.00
Chicago (Ill.) Bridge & Iron Co.	7,500	.05¾	37.50
Pennsylvania Steel Co., Steelton	8,150	...	.....
Albert H. Wolf, Chicago, Ill.	9,394	.06½	40.00

BRIDGE MASONRY.—Media, Pa.—The following bids were received Dec. 23, 1899, for masonry work for the new bridge over Chester Creek at Glen Mills: Alonzo V. Baker, $2.70 a cu. yd. for stone work, 30 cts. for excavating; Geo. Watterson, $3.50 and 25 cts.; Barnett & Robb, $2.30 and 40 cts.; Smedley & Watterson, $2.60 and 28 cts.; Jos. McCoy, $2.24 and 20 cts.; W. Pyle, $2.44 and 22 cts.

DREDGING, ETC.—Oakland, Cal.—Maj. W. H. Heuer, U. S. Engr., San Francisco, received the following bids Dec. 29, 1899, for 30,000 yds. of dredging incidental to the diversion of Sausal Creek to prevent overflowing into the tidal canal, the sums for diverting channel being given under Miscellaneous Contracts: Atlantic, Gulf & Pacific Co., San Francisco, and World Bldg., New York., 25 cts. a cu. yd.; Alfred W. Burrell, Oakland, 11¾ cts.; Fred Peterson, Oakland, total for entire work, $67,800; J. J. Dunn, Berkeley, Cal., 20 cts.; Clark & Henry, Stockton, Cal., total for entire work, $53,448; Dundon Bridge & Construction Co., San Francisco, total, $71,223; City-Street Improvement Co., San Francisco, 15 cts; Thos. Thomson, San Francisco, total, $60,470.

DREDGING.—New York, N. Y.—The following bids were received Jan. 5, 1900, for dredging in North River, between the Battery and 34th St.: Henry Du Bois & Son, 119 South St., 9.95 cts.; John R. Steers, 11 Broadway, 11.4 cts.; E. J. Walsh, 120 Pearl St., 14 cts.; James Du Bois, 14.4 cts.

INDUSTRIAL NOTES.

THE NEW YORK BLOWER CO., 39 Cortlandt St., New York, has moved its factory from Louisville, Ohio, to Bucyrus, Ohio.

THE HAMILTON BRIDGE WORKS CO., Hamilton, Ont., announces the appointment of Mr. W. H. Law as Chief Engineer and Manager, and that Mr. H. Szlapka will remain a member of the engineering staff of the company.

THOMAS B. McAVOY & SONS, with plants at Philadelphia and Perkiomen Junction, Pa., report an order for 4,000,000 paving brick for Havana, Cuba. The annual capacity of the Perkiomen Junction plant is said to be 13,000,000 brick.

THE EDWARD P. ALLIS CO., Milwaukee, reports that the year 1899 was by far the best in the history of the company. At present 2,400 men are employed, but this will probably be increased to 3,000 as soon as extensions now under way are completed.

PATTON & GIBSON, Pittsburg, Pa., have a contract from the Carnegie Steel Co., for the removal of 500,000 cu. yds. of coke that has been stored at the Edgar Thompson Furnaces for the past several years. The work of removal will be done by steam shovels, and is to commence Jan. 15.

THE ILLINOIS STEEL CO., Chicago, announces that the business of the Universal Construction Co. has been transferred to it, and will be continued as the Structural Department of the Illinois Steel Co. under the immediate supervision of Mr. W. H. Pratt as Manager, at North Works, 50 Wabansia Ave., Chicago.

THE WESTINGHOUSE ELECTRIC & MFG. CO., Pittsburg, has a contract reported as aggregating $500,000 for the complete equipment of the street railways at Adelaide, New South Wales. The system includes about 54 miles of road and is owned by the Adelaide Development Co., organized in London last summer.

JULIAN D'ESTE & CO., 24 Canal St., Boston, is placing upon the market a new air spring pressure regulator that we are informed has just been adopted by Westinghouse, Church, Kerr & Co., of New York, for use in connection with forced or mechanical draft. This company is successor to the Curtis Regulator Co.

THE EDGE MOOR IRON CO., Wilmington, Del., has shipped $40,000 worth of water-tube boilers for a large rolling mill in Russia. The company has in hand an order for 6,000-HP. of boilers for an electric light plant in Philadelphia, and a similar order for a plant in West Virginia. Mr. L. M. Moyes is New York representative.

G. A. CROSBY & CO., 176 South Clinton St., Chicago, have purchased the plant, patterns, presses, etc., of the E. S. Stiles Press Co., Watertown, N. Y., and will operate the plant hereafter. Mr. E. S. Stiles, Treasurer of the E. S. Stiles Press Co., has associated himself with G. A. Crosby & Co., and will give his personal attention to matters pertaining to the old business.

THE NEW YORK FILTER MFG. CO., 26 Cortlandt St., New York, announces that the American Water Works & Guarantee Co., Pittsburg, has purchased from it the New Orleans filter plant of 16,000,000 gallons daily capacity. The American Water Works & Guarantee Co. has already installed the New York Filter Mfg. Co.'s various types of filter plants in eight or ten of its water-works in various parts of the country. The plant installed in connection with their water-works plants at Hornellsville, N. Y., is of the same type as the New Orleans filters just purchased, and is now in satisfactory operation.

NEW COMPANIES.—Boons Path Iron Co., 243 Washington St., Jersey City, N. J.; $1,000,000; George T. Vickers, Jersey City; Wm. D. Kellogg, Elizabeth.

Golden State Oil, Mining & Development Co., Visalia, Cal.; $250,000; L. N. Wood, W. Kettner.

The Aurora Petroleum Co., Selma, Cal.; $250,000; E. E. Shepard, H. H. Borchers.

Mokelumne River Dredging Co., San Francisco, Cal.; general dredging and constructing business; $10,000; W. M. Stover, C. H. Cornell, J. Heenan, San Francisco; S. Goodenough, Oakland.

Alaska Pioneer Mining Co., Forty Mile, Alaska; $500,000; H. B. Fryberger, Duluth, Minn.; M. W. Watrous, C. M. Johnson, Forty Mile, Yukon Territory.

The Pennsylvania Engineering Works, New Castle, Pa.; $150,000; Edward King, George Greer, New Castle.

Excelsior Petroleum & Development Co., San Francisco, Cal.; $250,000; Cerf Rosenthal, I. S. Rosenbaum, A. W. Voorsanger.

Kern River Oil & Development Co., San Francisco, Cal.; $250,000; H. Dechant, E. J. Ensign, Leon E. Ensign.

Blue Ridge Coal & Iron Co., Corporation Trust Co. Bldg., Jersey City, N. J.; $100,000; Edward C. Babcock, Maurice Willis.

Automatic Fan & Motor Co., Kennett Square, Pa.; $50,000; A. S. Lewis, Radnor; T. Pennock, Kennett Square; W. H. Reber, Harritz.

Locomotive Smoke Preventer Co.; $6,000,000; J Quincy, Pres., Boston, Mass.; P. S. Heath, Vice-Pres.

American Automatic Loom Co., Trenton, N. J.; $1,200,000; James G. Gregg, New York; Wm. E. Fisher, Paterson.

Croton Bridge Co., Croton, N. Y.; $2,000,000; F. Couger, Croton; J. Virden, Dover.

Automatic Interconnecting Telephone Co., San Francisco, Cal.: $100,000; W. T. Hess, J. Finck.

Niagara Electric Equipment Co., Niagara Falls, N. Y.; $20,000; W. L. Adams, T. D. MacNoe, Buffalo.

Continental Sugar Co., Cleveland, O.; $500,000; G. R. Collings, F. E. Dyer, J. R. Riddle.

Morrow County Illuminating Co., Cleveland, O.; $25,000; E. W. Reddes, G. R. McCoy.

Virginia Rolling Mill Co., 419 Market St., Camden, N. J.; $200,000; Chester R. Baird, Nicholas H. Wagner.

Sparks Automobile Co., San Francisco, Cal.; $1,000,000; H. Taylor, W. J. Barnett.

If you want additional help, or to procure second-hand tools, machinery, plant, etc., XXI

If you have anything to sell or to rent, we suggest that you advertise for a few weeks on XXII-XXIII

If you want bids for doing any work, or for furnishing supplies, try an advertisement on a "Proposal" page XXV-XXVIII

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